Service Manual

XG-M **(CODE NO. 2019)**

MINOLTA

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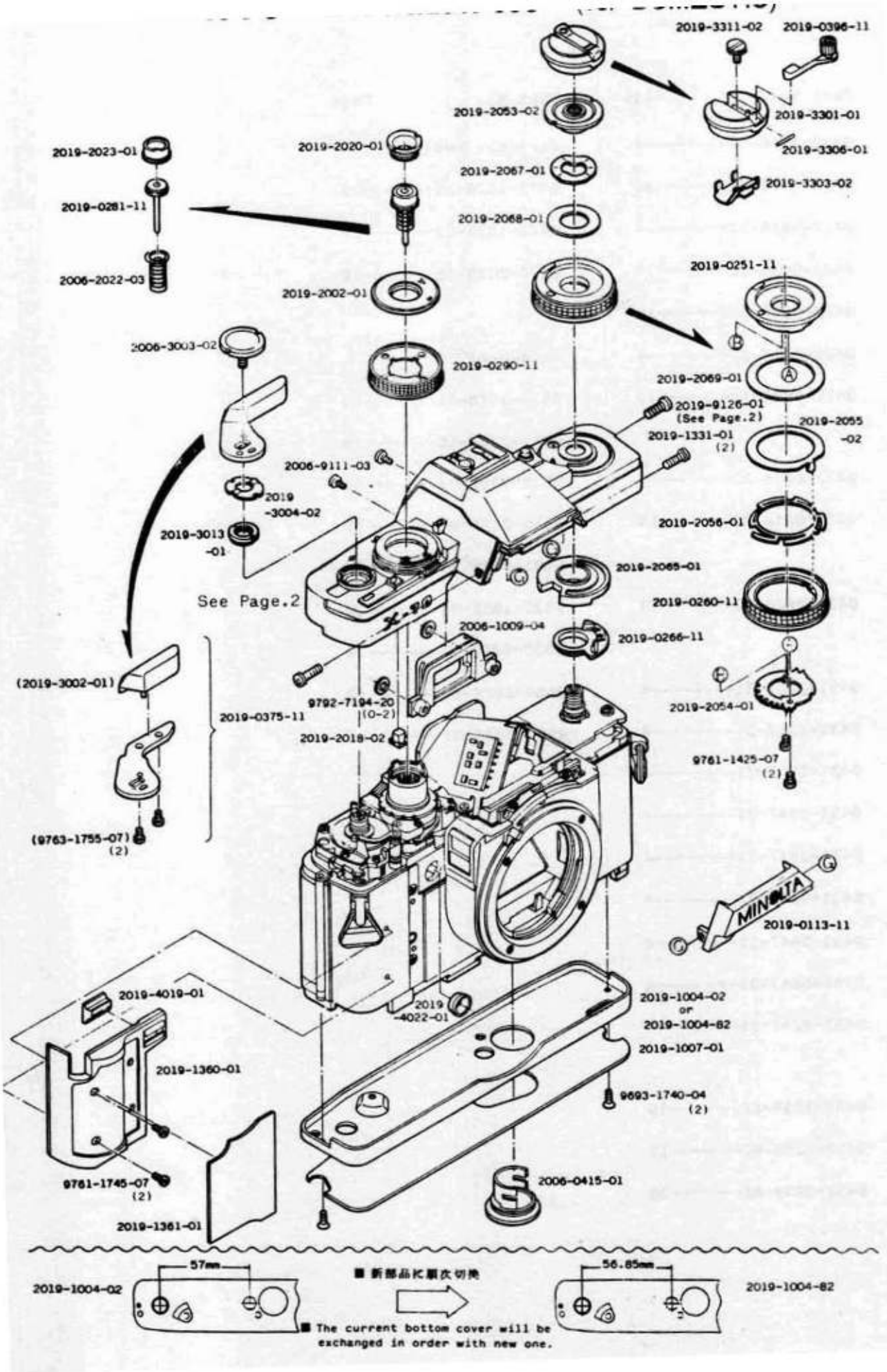
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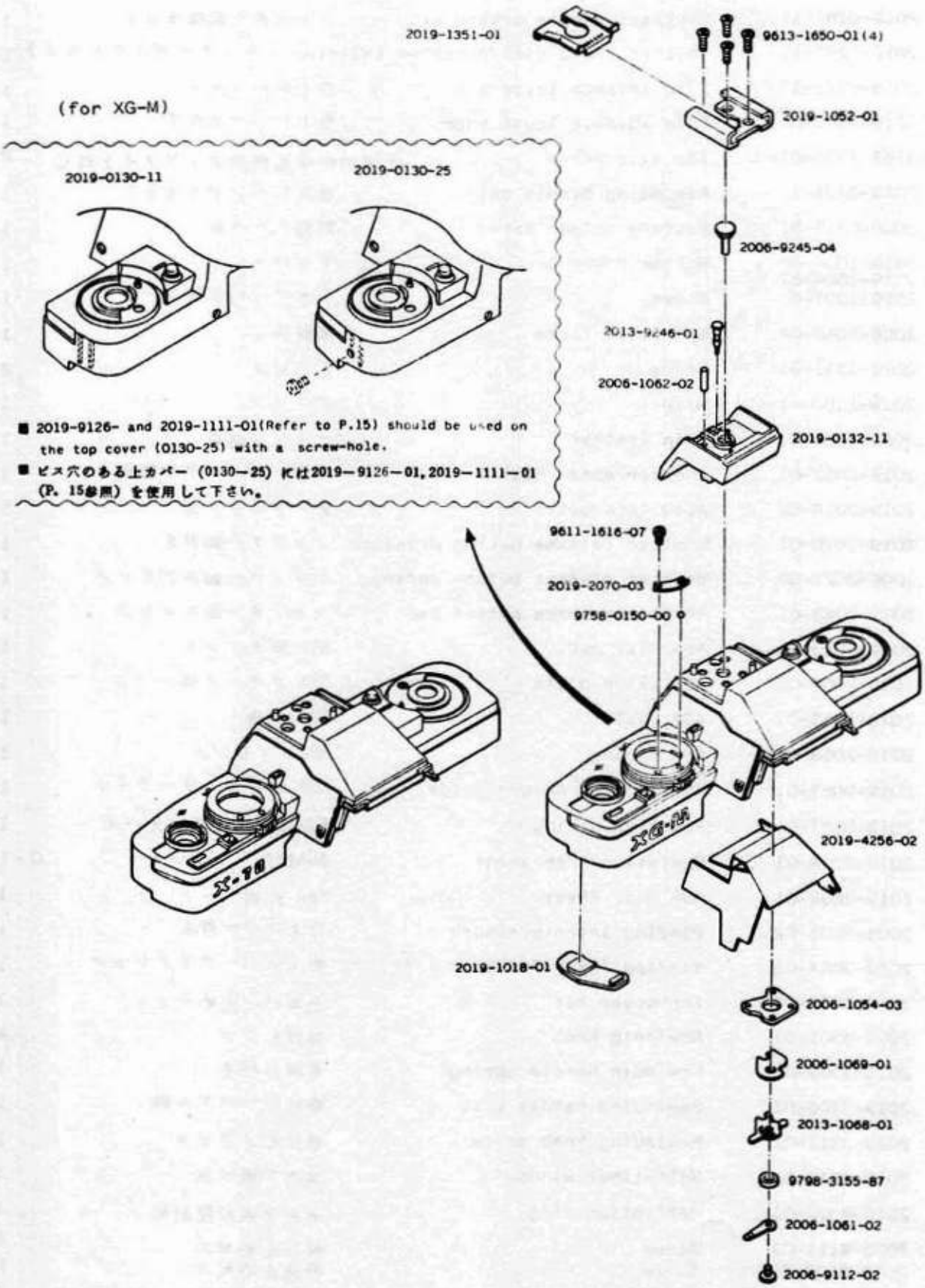
57mm
2019-1004-02
■ 新部品に順次切換
■ The current bottom cover will be exchanged in order with new one.
56.85mm
2019-1004-82

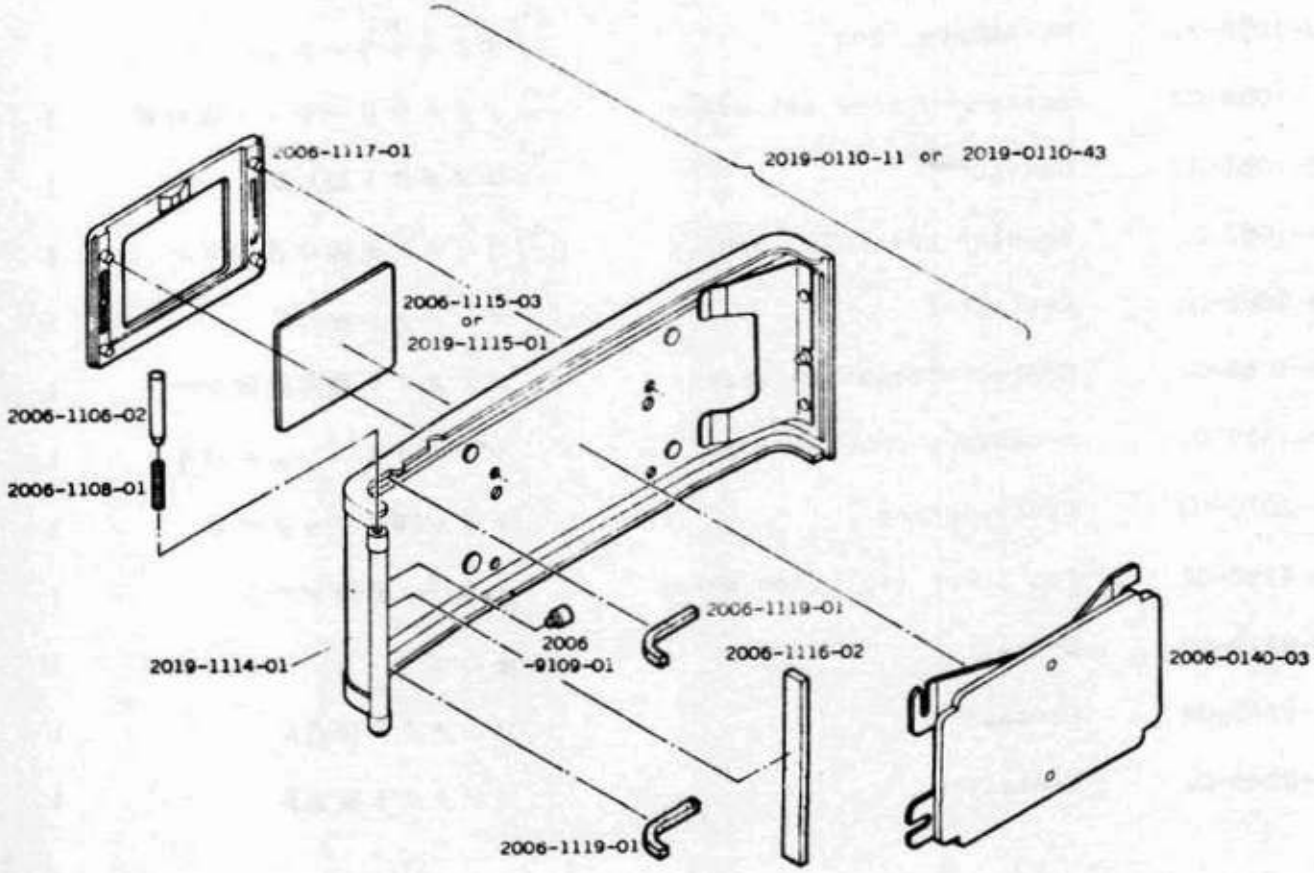
Part No.	Part Name		Qty.
2019-0113-11	Front top cover set	正面上部カバーセット	1
2019-0251-11	ASA cover plate set	ASA カバー板セット	1
2019-0260-11	ASA operation knob set	ASA 操作ノブセット	1
2019-0266-11	ASA contact holder set	ASA 接片ホルダーセット	1
2019-0281-11	Shutter release button set	シャッター鋲軸セット	1
2019-0290-11	Shutter speed dial/Function selector	シャッターダイヤルセット	1
2019-0375-11	Film advance lever set	巻上レバーセット	1
(2019-3002-01)	Film advance lever knob	巻上レバー指当て	1
(9763-1755-07)	Tap tite screw	十字穴付半丸皿頭タップタイトねじ	2
2019-0396-11	Rewinding handle set	巻戻しハンドルセット	1
2006-0415-01	Battery holder set	電池ケース蓋	1
2019-1004-02 or 2019-1004-82	Bottom cover	下カバー	1
2019-1007-01	Sheet	下カバー用保護シート	1
2006-1009-04	Eye-piece frame	接眼枠	1
2019-1331-01	Screw	止めビス	2
2019-1360-01	Grip	グリップ	1
2019-1361-01	Grip leather	グリップ貼皮	1
2019-2002-01	Shutter speed dial	スピードダイヤル銘板	1
2019-2018-02	Auto lock button	オートロック鋲	1
2019-2020-01	Shutter release button pressure	シャッター鋲押え	1
2006-2022-03	Shutter release button spring	シャッター鋲スプリング	1
2019-2023-01	Shutter release button cap	シャッター鋲キャップ	1
2019-2053-02	ASA dial nut	ASA 押えナット	1
2019-2054-01	ASA click plate	ASA クリック板	1
2019-2055-02	ASA dial	ASA 銘板	1
2019-2056-01	ASA spring	ASAスプリング	1
2019-2065-01	ASA contact holder guide	ASA 接片ホルダーガイド	1
2019-2067-01	Pressure spring	ASA操作リング押えバネ	1
2019-2068-01	Operation knob sheet	ASA操作リングシート	0-1
2019-2069-01	ASA dial sheet	ASA 銘板シート	1
2006-3003-02	Winding lever pressure	巻上レバー押え	1
2019-3004-02	Winding lever friction	巻上レバーフリクション	1
2019-3013-01	Top cover nut	上カバー止めナット	1
2019-3301-01	Rewindig knob	巻戻しノブ	1
2019-3303-02	Rewindin handle spring	巻戻しバネ	1
2019-3306-01	Rewinding handle axis	巻戻しハンドル軸	1
2019-3311-02	Rewinding knob screw	巻戻しノブビス	1
2019-4019-01	Self-timer window	セルフ表示窓	1
2019-4022-01	Reflection ring	セルフ表示反射環	1
2006-9111-03	Screw	特殊止めビス	2
2019-9126-01	Screw	特殊止めビス	1
9693-1740-04	Phillips type tapping screw	十字穴付半丸皿頭タッピングねじ	2
9761-1425-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9761-1745-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9792-7194-20	Tap tite screw	薄ワッシャー	0-2

Assy. Part No. 2019-0130-11 (for XG-M)
or
2019-0130-25

Assy. Part No. 2019-0134-11 (for X-70)



Part No.	Part Name		Qty
2019-0130-11 or 2019-0130-25	Top cover set(for XG-M)	上カバーセット	1
2019-0134-11	Top cover set (for X-70)	上カバーセット	1
2019-0132-11	Accessory shoe base set	アクセサリーシュー座	1
2019-1018-01	Counter window	カウンター窓	1
2019-1052-01	Accessory shoe	アクセサリーシュー	1
2006-1054-03	Accessory shoe set plate	アクセサリーシュー取付板	1
2006-1061-02	Contact-D	コンタクト接片D	1
2006-1062-02	Counter operation pin	コンタクト接片連動ピン	1
2013-1068-01	Contact-E	コンタクト接片E	1
2006-1069-02	Contact isolation sheet	コンタクト接片絶縁シート	1
2019-1315-01	Accessory shoe spring	アクセサリーシューバネ	1
2019-2070-03	Click spring	メインSWクリックバネ	1
2019-4256-02	Top cover isolation sheet	上カバー絶縁シート	1
2006-9112-02	Screw	止めビス	1
2006-9245-04	Contact-A	コンタクト接点A	1
2006-9246-02	Contact-B	コンタクト接点B	1
9611-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9613-1650-01	Phillips type screw	十字穴付半丸皿頭小ねじ	4
9758-0150-00	Steel ball	スチールボール	1
9798-3155-87	Washer	薄ワッシャー	1



(2019-0110-11)

2006-1115-03

DIN	ASA			ASA
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15	25		27	400
18	50		30	600
21	100		33	1600
			36	3200

MINOLTA CAMERA CO. LTD
JAPAN

(for XG-M)

(2019-0110-43)

2019-1115-01

ISO		
(DIN · ASA)		
12°	12	24° 200
15°	25	27° 400
18°	50	30° 800
21°	100	33° 1600
		36° 3200
		39° 6400

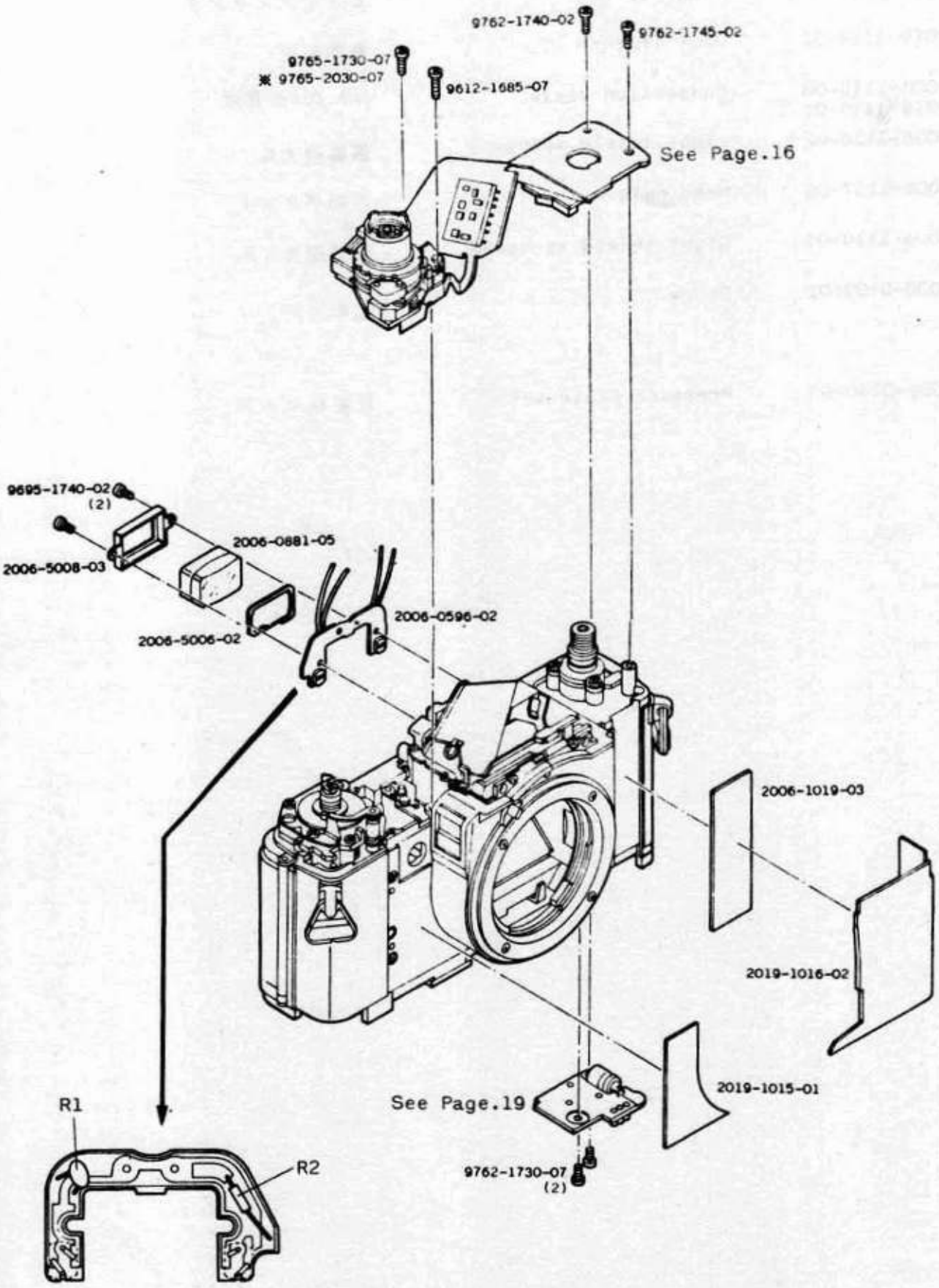
MINOLTA CAMERA CO. LTD
JAPAN

(for XG-M & X-70)

■ Changed item.....ASA indication has changed to ISO.
■ The current parts will be exchanged in order with new ones for XG-M.

■ 変更内容・・・・ASA表示からISO表示に変更
■ XG-M社順次新部品に切換

Part No.		Part Name		Qty.
2019-0110-11 2019-0110-43	or	Back cover set	裏蓋セット	1
2006-1106-02		Hinge axis-A	ヒンジ軸A	1
2006-1108-01		Hinge spring	ヒンジスプリング	1
2019-1114-01		Back leather	裏蓋貼皮	1
2006-1115-03 2019-1115-01	or	Conversion scale	ASA.DIN換算板	1
2006-1116-02		Light shield sponge	裏蓋遮光片	1
2006-1117-01		Memo halder	裏蓋ポケット	1
2006-1119-01		Light shield sponge-B	裏蓋遮光片B	2
2006-9109-01		Screw	止めビス	1
2006-0140-03		Pressure plate set	圧着板セット	1

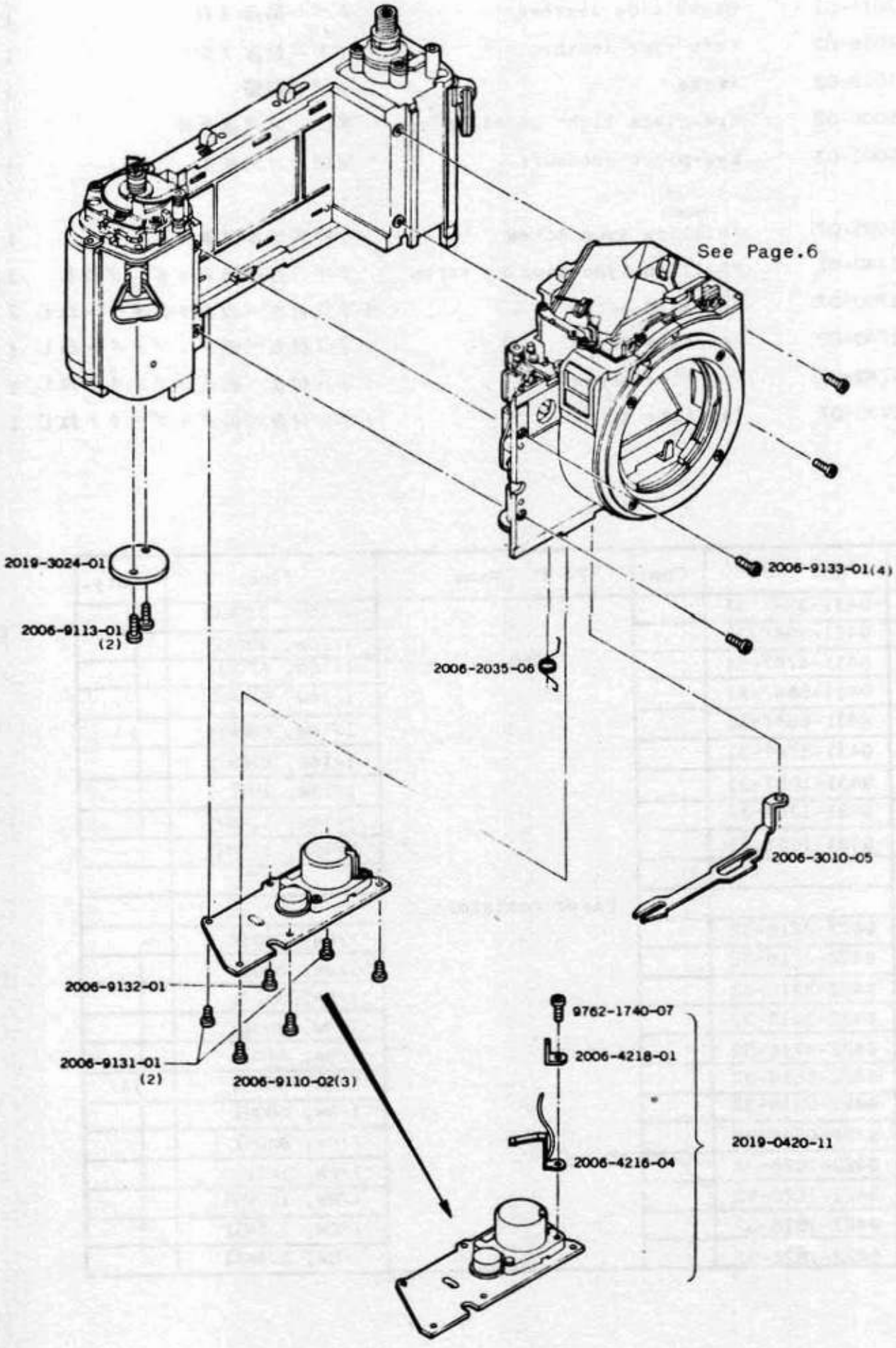


※ The screw for damaged hole

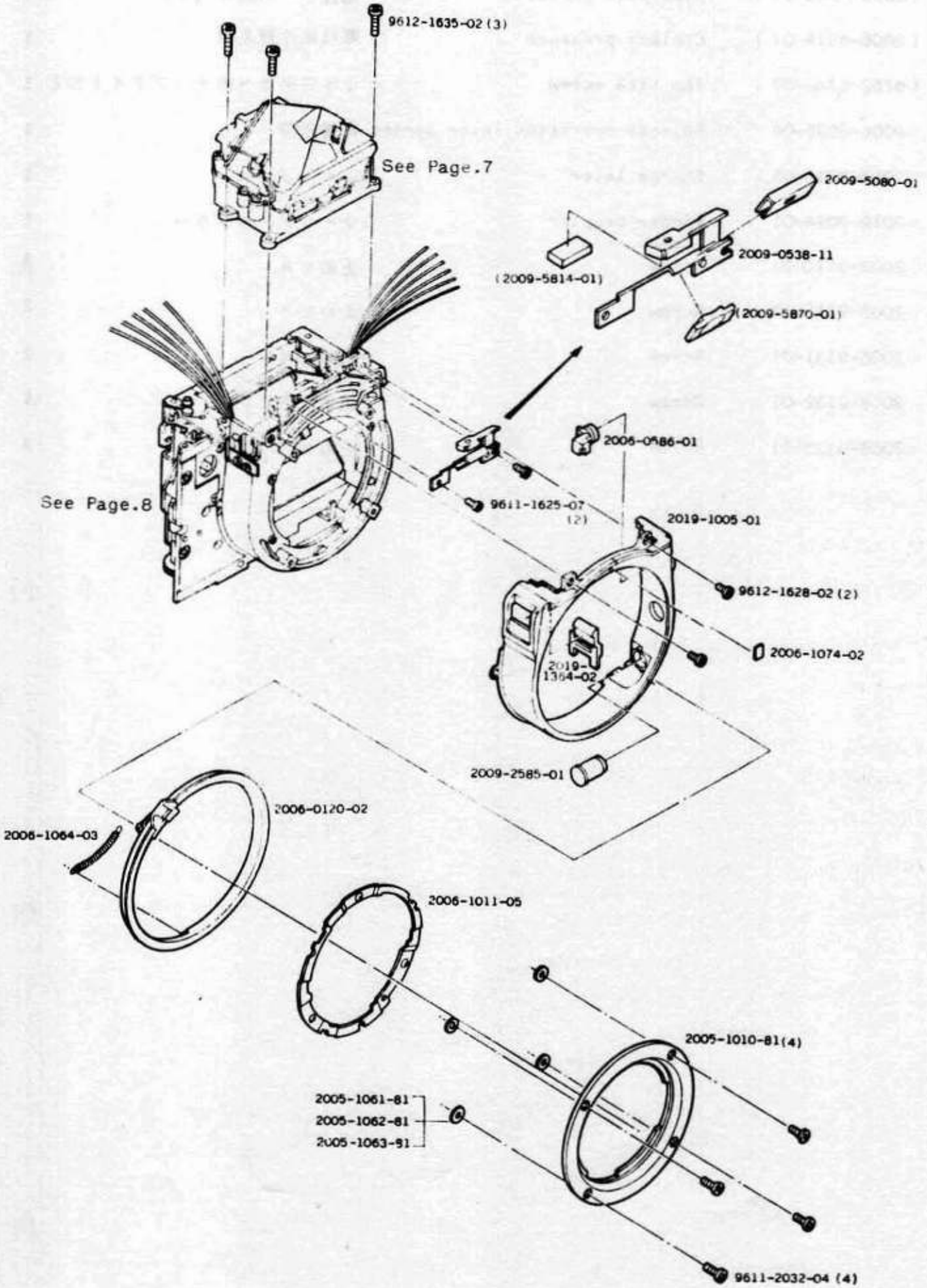
ねじ穴不良対策ビス

Part No.	Part Name		Q1
2006-0596-02	Cds circuit base plate set	Cds基板セット	1
2006-0881-05	Eye-piece set	接眼レンズセット	1
2019-1015-01	Right side leather	ボデー貼皮（右）	1
2019-1016-02	Left side leather	ボデー貼皮（左）	1
2006-1019-03	Plate	ボデー貼板	1
2006-5006-02	Eye-piece light shield plate	接眼レンズ遮光枠	1
2006-5008-03	Eye-piece pressure	接眼レンズ押え	1
9612-1685-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9695-1740-02	Phillips type tapping screw	十字穴付皿頭タッピングねじ	2
9762-1730-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9762-1740-02	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9762-1745-02	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9765-1730-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1

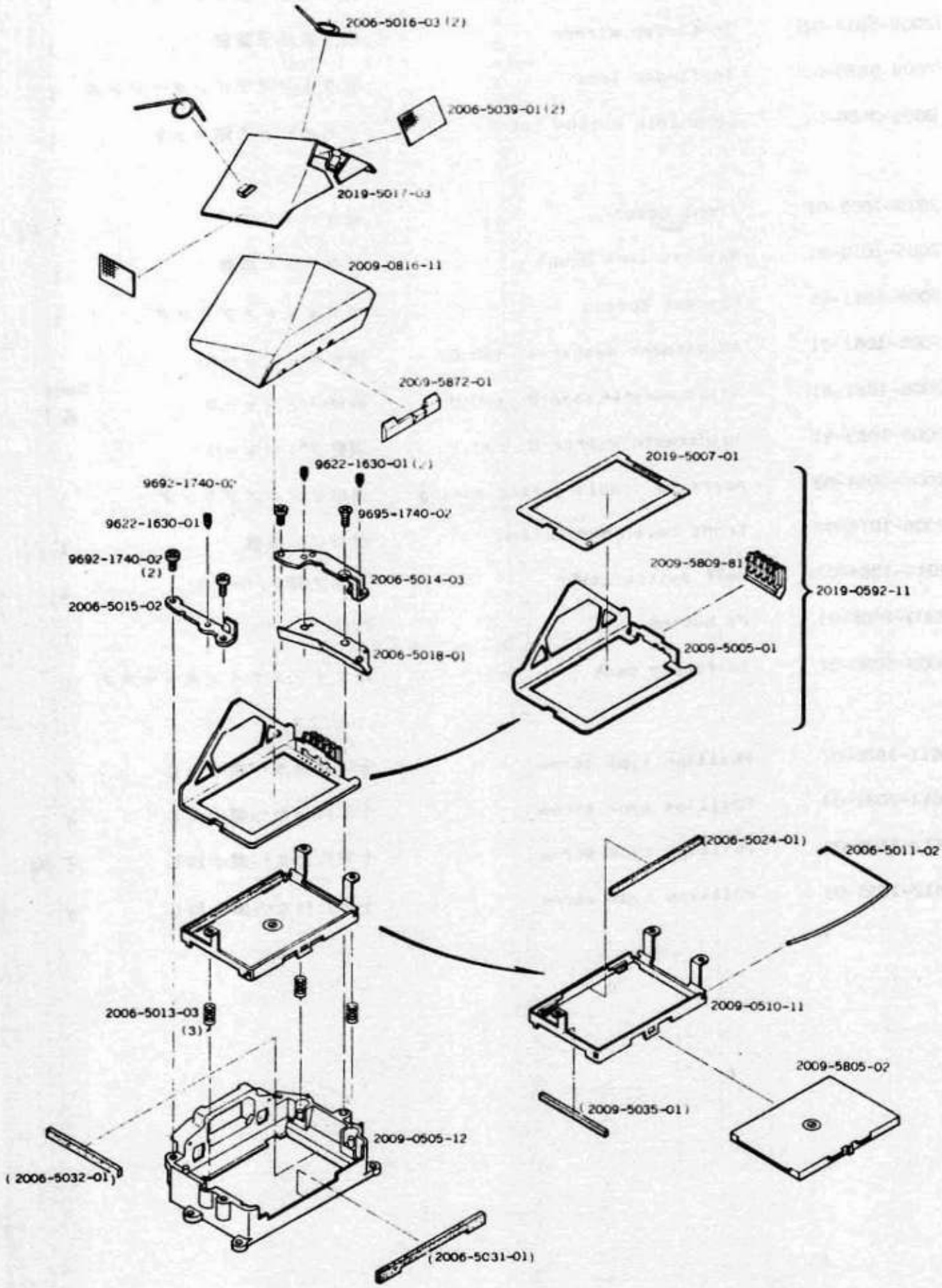
Symbol		Part No.	Com	Part Name	Type.	Qty.
	R1	9431-3347-31		Fixed resistor	1/16W, 330KΩ	
		9431-3947-31			1/16W, 390KΩ	
		9431-4747-31			1/16W, 470KΩ	
		9431-5647-31			1/16W, 560KΩ	
		9431-6847-31			1/16W, 680KΩ	1
		9431-8247-31			1/16W, 820KΩ	
		9431-1057-31			1/16W, 1MΩ	
		9431-1257-31			1/16W, 1.2MΩ	
		9431-1557-31			1/16W, 1.5MΩ	
	R2	9422-2216-32			1/8W, 200Ω	
		9422-2716-32			1/8W, 270Ω	
		9422-3316-32			1/8W, 330Ω	
		9422-3916-32			1/8W, 390Ω	
		9422-4716-32			1/8W, 470Ω	
		9422-5616-32			1/8W, 560Ω	1
		9422-6816-32			1/8W, 680Ω	
		9422-8216-32			1/8W, 820Ω	
		9422-1026-32			1/8W, 1KΩ	
		9422-1226-32			1/8W, 1.2KΩ	
		9422-1526-32			1/8W, 1.5KΩ	
		9422-1826-32			1/8W, 1.8KΩ	


See Page.6
2019-3024-01
2006-9113-01
(2)
2006-9133-01(4)
2006-2035-06
2006-3010-05
2006-9132-01
2006-9131-01
(2)
2006-9110-02(3)
9762-1740-07
2006-4218-01
2006-4216-04
2019-0420-11

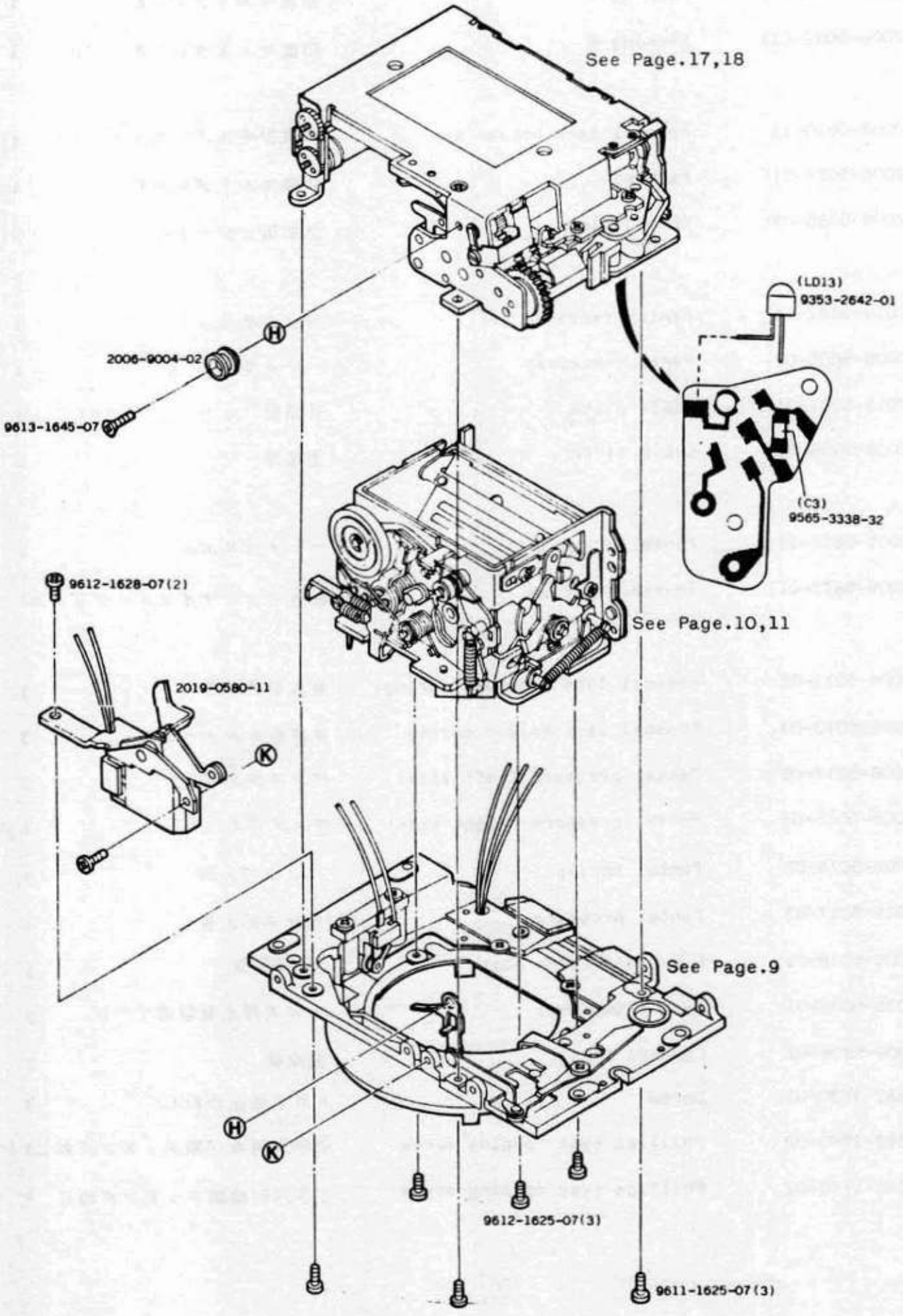
Part No.	Part Name		Qty.
2019-0420-11	Battery case base plate set	電池ケース台板	1
(2006-4216-04)	Plus side contact	電池ケース接片（+）	1
(2006-4218-01)	Contact pressure	電池接片押え板	1
(9762-1740-07)	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
2006-2035-06	Release operation lever spring	吸着用SP	1
2006-3010-05	Charge lever	チャージレバー	1
2019-3024-01	Winder coupler	ワインダーカプラー	1
2006-9110-01	Screw	止めビス	3
2006-9113-02	Screw	止めビス	2
2006-9131-01	Screw	止めビス	2
2006-9132-01	Screw	止めビス	1
2006-9133-01	Screw	止めビス	4


9612-1635-02 (3)
See Page.7
2009-5080-01
2009-0538-11
(2009-5814-01)
(2009-5870-01)
2006-0586-01
See Page.8
9611-1625-07 (2)
2019-1005-01
9612-1628-02 (2)
2006-1074-02
2019-1364-02
2009-2585-01
2006-0120-02
2006-1064-03
2006-1011-05
2005-1010-81(4)
2005-1061-81
2005-1062-81
2005-1063-81
9611-2032-04 (4)

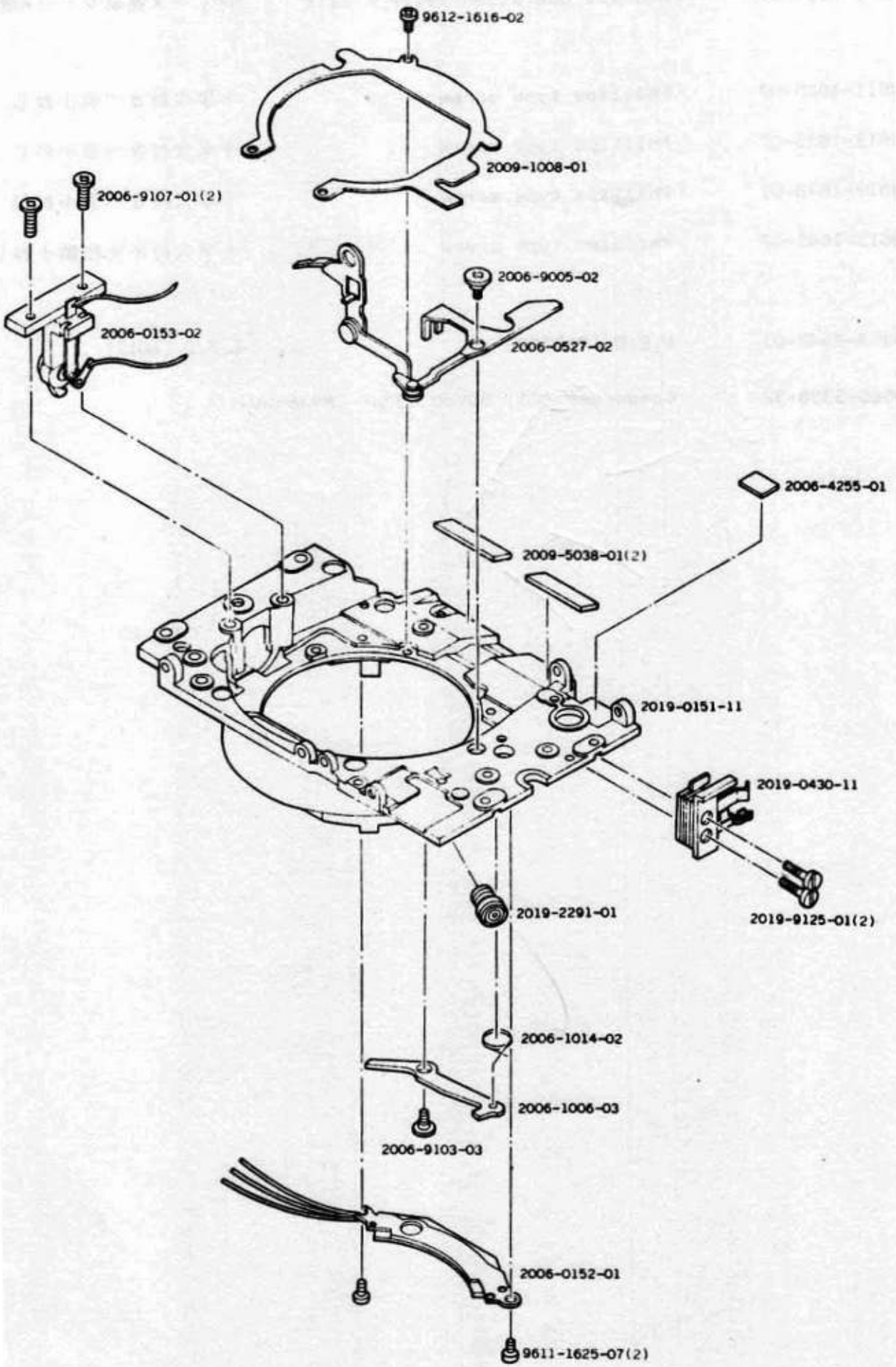
Part No.	Part Name		Qty.
2006-0120-02	Aperture coupling ring set	連結リングセット	1
2009-0538-11	In-finder base plate set	絞りミラーホルダーセット	1
(2009-5814-01)	In-finder mirror	絞り表示平面鏡	1
(2009-5870-01)	In-finder lens	絞りインファインダーレンズ	1
2006-0586-01	Lens lock button set	レンズロック釦セット	1
2019-1005-01	Front cover	前カバー	1
2005-1010-81	Bayonet lens mount	バヨネット座板	1
2006-1011-05	Bayonet spring	バヨネットスプリング	1
2005-1061-81	Adjustment washer-A t=0.02	調整ワッシャーA	Some 若干
2005-1062-81	Adjustment washer-B t=0.05	調整ワッシャーB	
2005-1063-81	Adjustmetn washer-C t=0.1	調整ワッシャーC	
2006-1064-03	Aperture coupling ring spring	連結リングスプリング	1
2006-1074-02	Front cover indication	前カバー指標	1
2019-1364-02	Self switch lever	セルフSWレバー	1
2009-2585-01	PV button	PV釦	1
2009-5080-01	In-finder mask	絞りインファインダーマスク	1
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9611-2032-04	Phillips type screw	十字穴付なべ頭小ねじ	4
9612-1628-02	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1635-02	Phillips type screw	十字穴付なべ頭小ねじ	3


2006-5016-03 (2)
2006-5039-01 (2)
2019-5017-03
2009-0816-11
2009-5872-01
9622-1630-01 (2)
9692-1740-02
9622-1630-01
9695-1740-02
9692-1740-02 (2)
2006-5014-03
2006-5015-02
2006-5018-01
2019-5007-01
2009-5809-81
2019-0592-11
2009-5005-01
(2006-5024-01)
2006-5011-02
2009-0510-11
2006-5013-03 (3)
2009-5805-02
(2009-5035-01)
2009-0505-12
(2006-5032-01)
(2006-5031-01)

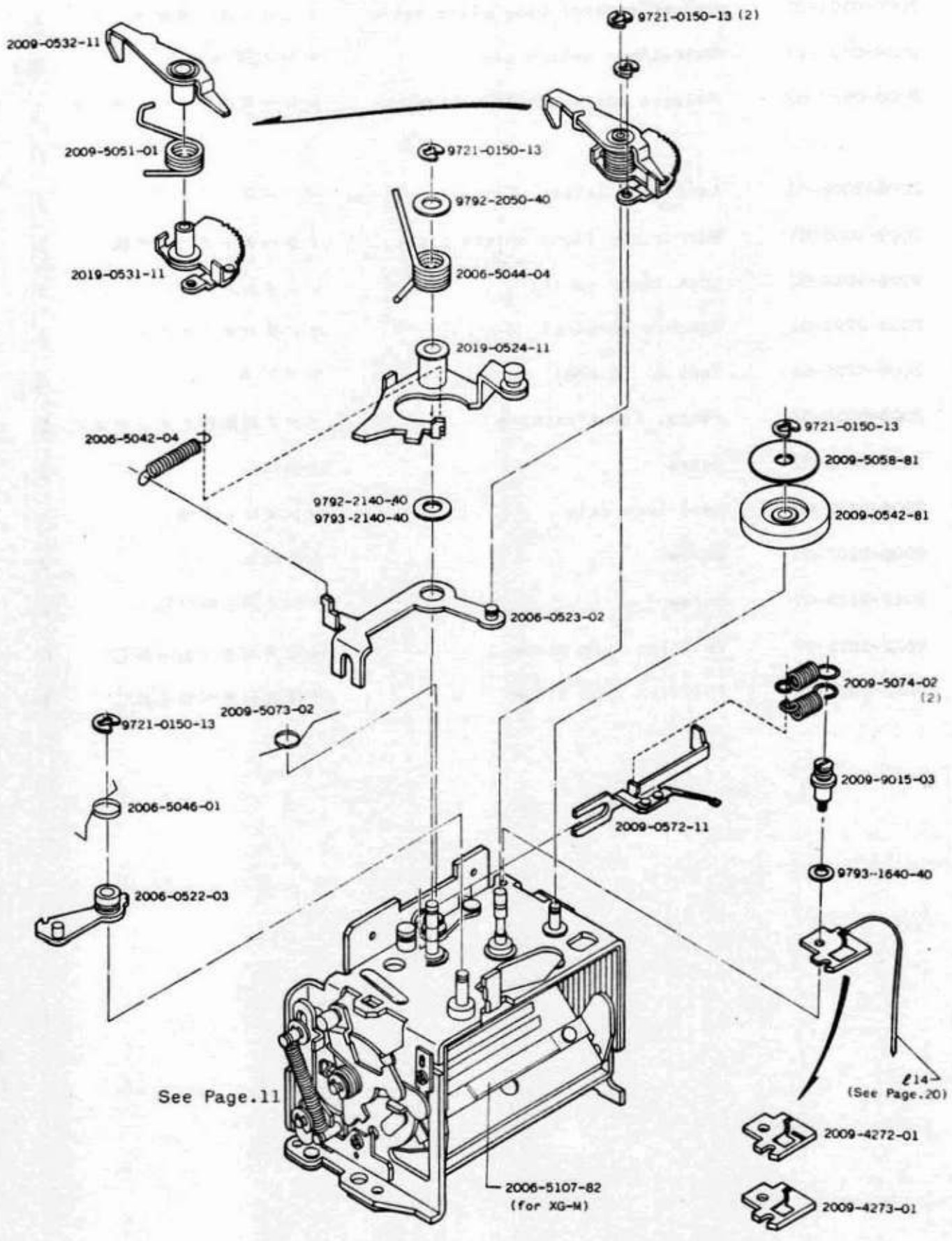
Part No.	Part Name		Qty.
2009-0505-12	Penta. holder set	ペンターホルダーセット	1
(2006-5031-01)	Packing-A	防塵モルトプレンA	1
(2006-5032-01)	Packing-B	防塵モルトプレンB	1
2009-0510-11	Fresnel lens holder set	焦点板ホルダーセット	1
(2006-5024-01)	Packing-C	防塵モルトプレンC	1
(2009-5035-01)	Shield plate	防塵塩ビシート	1
2019-0592-11	Penta. receiver set	ペンタ受セット	1
(2009-5005-01)	Penta. receiver	ペンタ受	1
(2019-5007-01)	Scale plate	目盛板	1
(2009-5809-81)	L.E.D mirror	光路鏡	1
2009-0816-11	Penta. prism set	ペンタプリズム	1
(2009-5872-01)	In-finder prism	絞りインファインダープリズム	1
2006-5011-02	Fresnel lens pressure spring	焦点板押えSP	1
2006-5013-03	Fresnel lens holder spring	焦点板ホルダーSP	3
2006-5014-03	Penta. pressure (Left side)	ペンタ押え（左）	1
2006-5015-02	Penta. pressure (Right side)	ペンタ押え（右）	1
2006-5016-03	Penta. spring	ペンタ押えSP	2
2019-5017-03	Penta. pressure	ペンタ押え板	1
2006-5018-01	L.E.D diffusion plate	LED拡散板	1
2006-5039-01	Tape (15mmX9mm)	ペンタ押え板接着テープ	2
2009-5805-02	Fresnel lens	焦点板	1
9622-1630-01	Screw	トガリ先止めねじ	3
9692-1740-02	Phillips type tapping screw	十字穴付なべ頭タッピングねじ	3
9695-1740-02	Phillips type tapping screw	十字穴付皿頭タッピングねじ	1


See Page.17,18
(LD13)
9353-2642-01
2006-9004-02
9613-1645-07
(C3)
9565-3338-32
9612-1628-07(2)
See Page.10,11
2019-0580-11
See Page.9
9612-1625-07(3)
9611-1625-07(3)

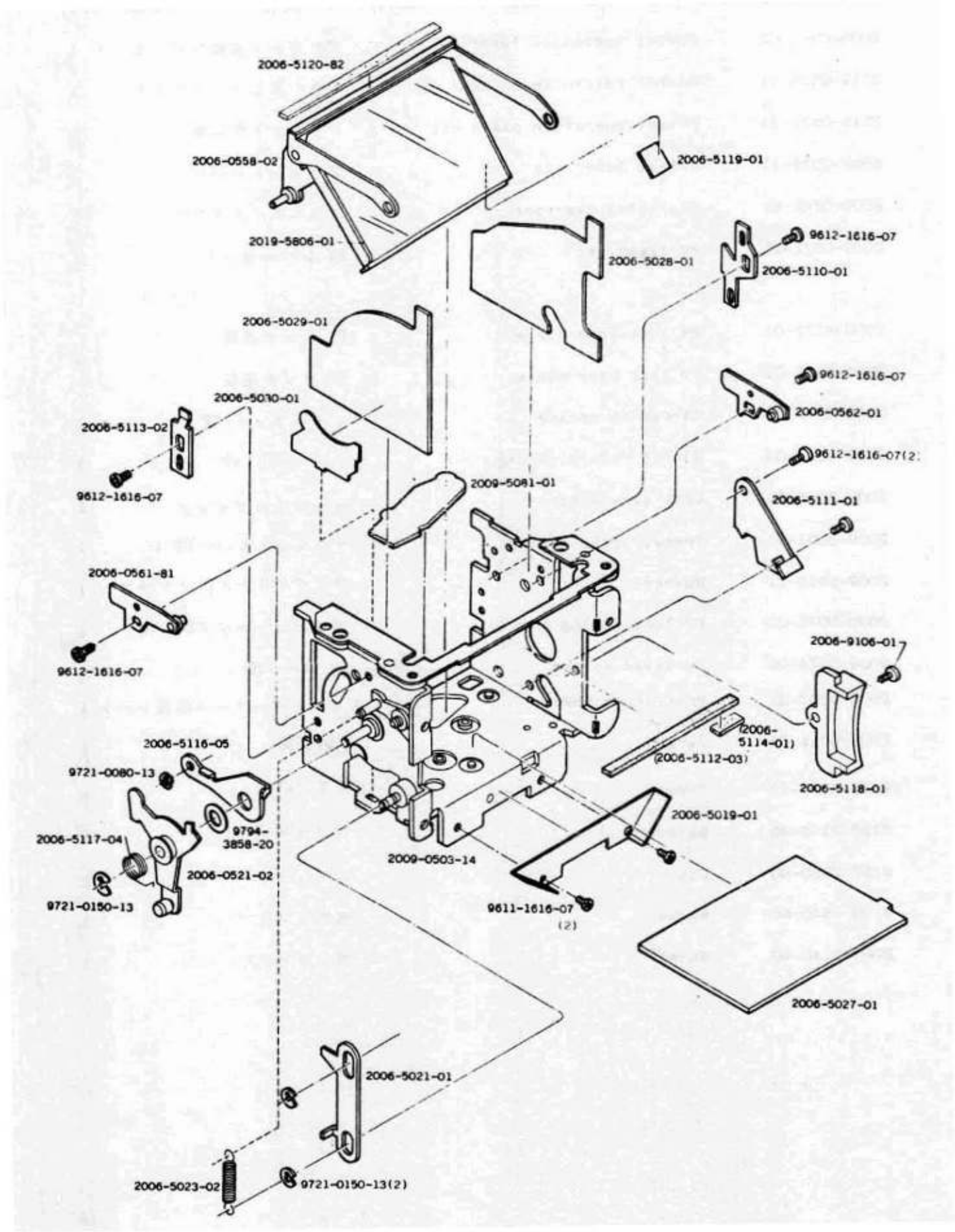
Part No.	Part Name		Qty.
2019-0580-11	Magnetic release base plate set	レリーズマグネット台板	1
2006-9004-02	Release operation lever A axis	レリーズ連結レバーA軸	1
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9612-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9612-1628-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9613-1645-07	Phillips type screw	十字穴付半丸皿頭小ねじ	1
9353-2642-01	L.E.D (TLR108)	L.E.D (LD13)	1
9565-3338-32	Condenser (C3; 50V/0.033μF CR426YSU)		1


9612-1616-02
2009-1008-01
2006-9107-01(2)
2006-9005-02
2006-0153-02
2006-0527-02
2006-4255-01
2009-5038-01(2)
2019-0151-11
2019-0430-11
2019-2291-01
2019-9125-01(2)
2006-1014-02
2006-1006-03
2006-9103-03
2006-0152-01
9611-1625-07(2)

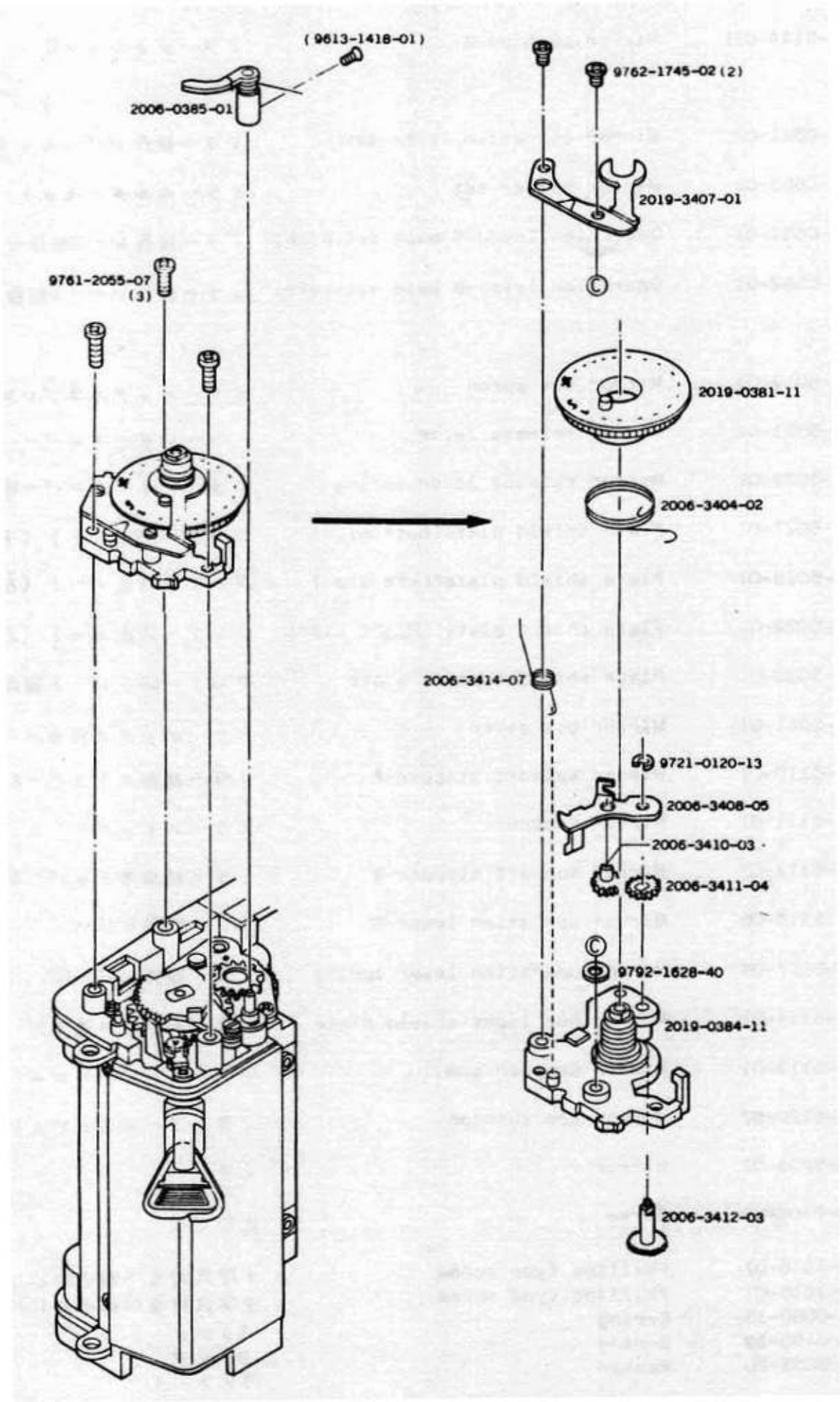
Part No.	Part Name		Qty.
2019-0151-11	Front base plate set	前枠セット	1
2006-0152-01	Circuit base plate-B	回路基板B セット	1
2006-0153-02	Remote control base plate set	リモコン接片基板セット	1
2019-0430-11	Self-timer switch set	セルフSW セット	1
2006-0527-02	Release operation lever set	レリーズ連結レバーセット	1
2006-1006-03	Lens lock lever	レンズロックレバー	1
2009-1008-01	Mirror box light shield plate	ミラーボックス遮光板	1
2006-1014-02	Lock lever spring	ロックレバーSP	1
2019-2291-01	Synchro terminal	シンクロターミナル	1
2006-4255-01	Tape A (3.8X8)	テープ A	1
2009-5038-01	Penta. front packing	ペンタ前面押えクッション	2
2006-9005-02	Screw	止めねじ	1
2006-9103-03	Lens lock axis	レンズロック軸	1
2006-9107-01	Screw	止めねじ	2
2019-9125-01	Screw	セルフSW止めねじ	2
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1616-02	Phillips type screw	十字穴付なべ頭小ねじ	1


9721-0150-13 (2)
2009-0532-11
2009-5051-01
2019-0531-11
9721-0150-13
9792-2050-40
2006-5044-04
2019-0524-11
2006-5042-04
9792-2140-40
9793-2140-40
2006-0523-02
9721-0150-13
2009-5058-81
2009-0542-81
2009-5074-02
(2)
2009-9015-03
9793-1640-40
2009-0572-11
9721-0150-13
2009-5073-02
2006-5046-01
2006-0522-03
See Page.11
2006-5107-82
(for XG-M)
ℓ14
(See Page.20)
2009-4272-01
2009-4273-01

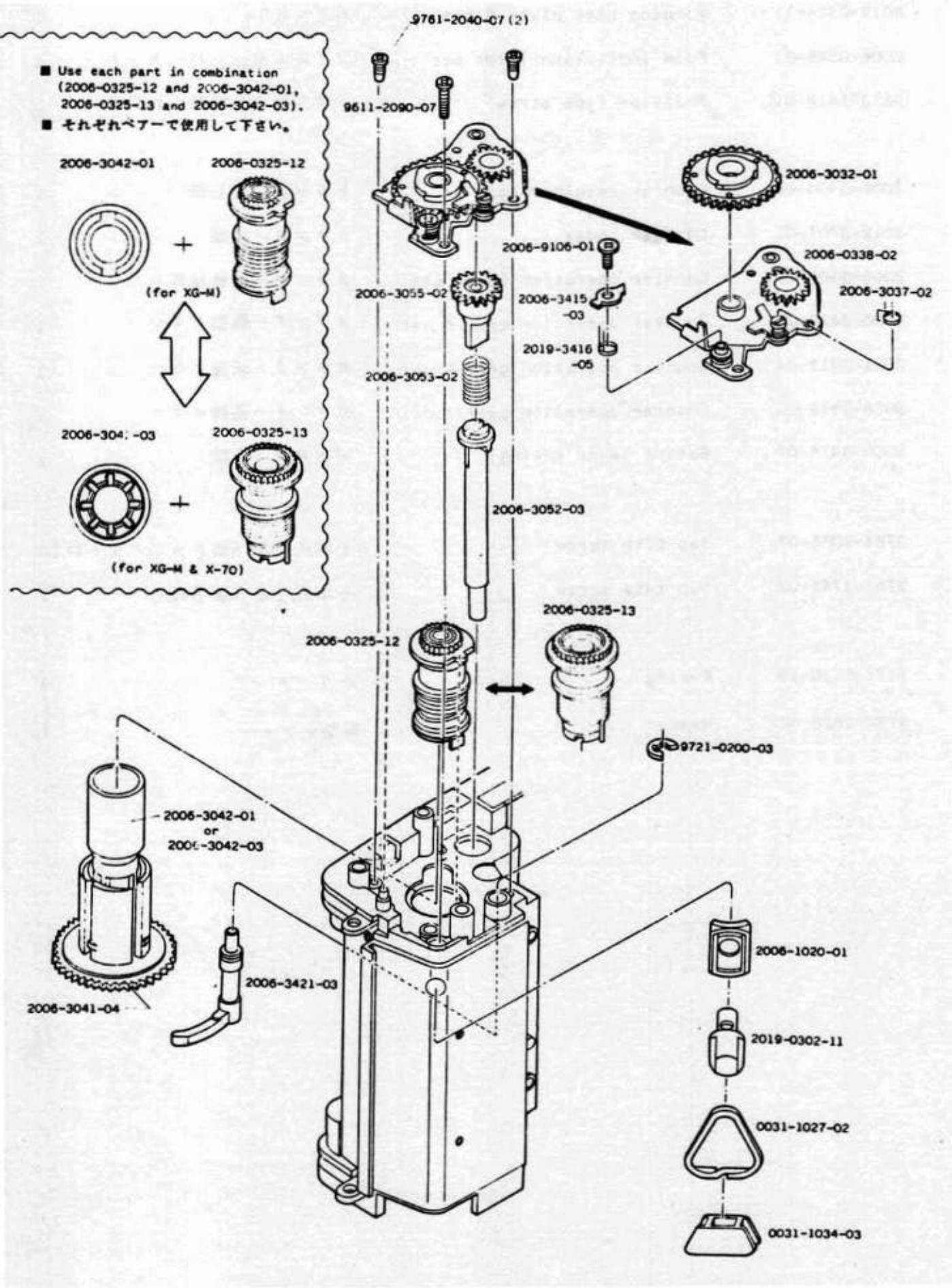
Part No.	Part Name		Qty.
2006-0522-03	Mirror return lever lock claw set	ミラー戻しレバーロック爪セット	1
2006-0523-02	Preset operation lever set	プリセット連動レバーセット	1
2019-0524-11	Mirror return lever set	ミラー戻しレバーセット	1
2019-0531-11	Preset operation plate set	プリセット作動板	1
2009-0532-11	Preset lever set	プリセットレバー	1
2009-0542-81	Fly wheel gear set	フライホイルギヤー	1
2009-0572-11	PV lever set	PV レバーセット	1
2009-4272-01	PV lock base plate	PV ロック基板	1
2009-4273-01	PV lock base plate	PV ロック基板	
2006-5042-04	Mirror-up spring	ミラーアップ SP	1
2006-5044-04	Mirror return spring	ミラー戻し SP	1
2006-5046-01	Lock claw spring	ロック爪スプリング	1
2009-5051-01	Preset lever spring	プリセットレバーSP	1
2009-5058-81	Washer	フライホイールワッシャー	1
2009-5073-02	PV lock spring	プレビューロックSP	1
2009-5074-02	PV lever spring	PV レバーSP	2
2006-5107-82	Protection sheet	ミラーホルダーアーム保護シート	1
2009-9015-03	Screw	止めビス	1
9721-0150-13	E-ring	E リング	5
9792-2140-40	Washer	薄ワッシャー	1
9792-2050-40	Washer	薄ワッシャー	1
9793-1640-40	Washer	薄ワッシャー	1
9793-2140-40	Wacher	薄ワッシャー	1


2006-5120-82
2006-0558-02
2006-5119-01
2019-5806-01
2006-5028-01
9612-1616-07
2006-5110-01
2006-5029-01
9612-1616-07
2006-5010-01
2006-0562-01
2006-5113-02
9612-1616-07(2)
9612-1616-07
2009-5081-01
2006-5111-01
2006-0561-81
9612-1616-07
2006-9106-01
2006-5116-05
2006-5114-01)
9721-0080-13
2006-5112-03)
2006-5118-01
2006-5019-01
9794-3858-20
2006-5117-04
2009-0503-14
2006-0521-02
9721-0150-13
9611-1616-07
(2)
2006-5027-01
2006-5021-01
2006-5023-02
9721-0150-13(2)

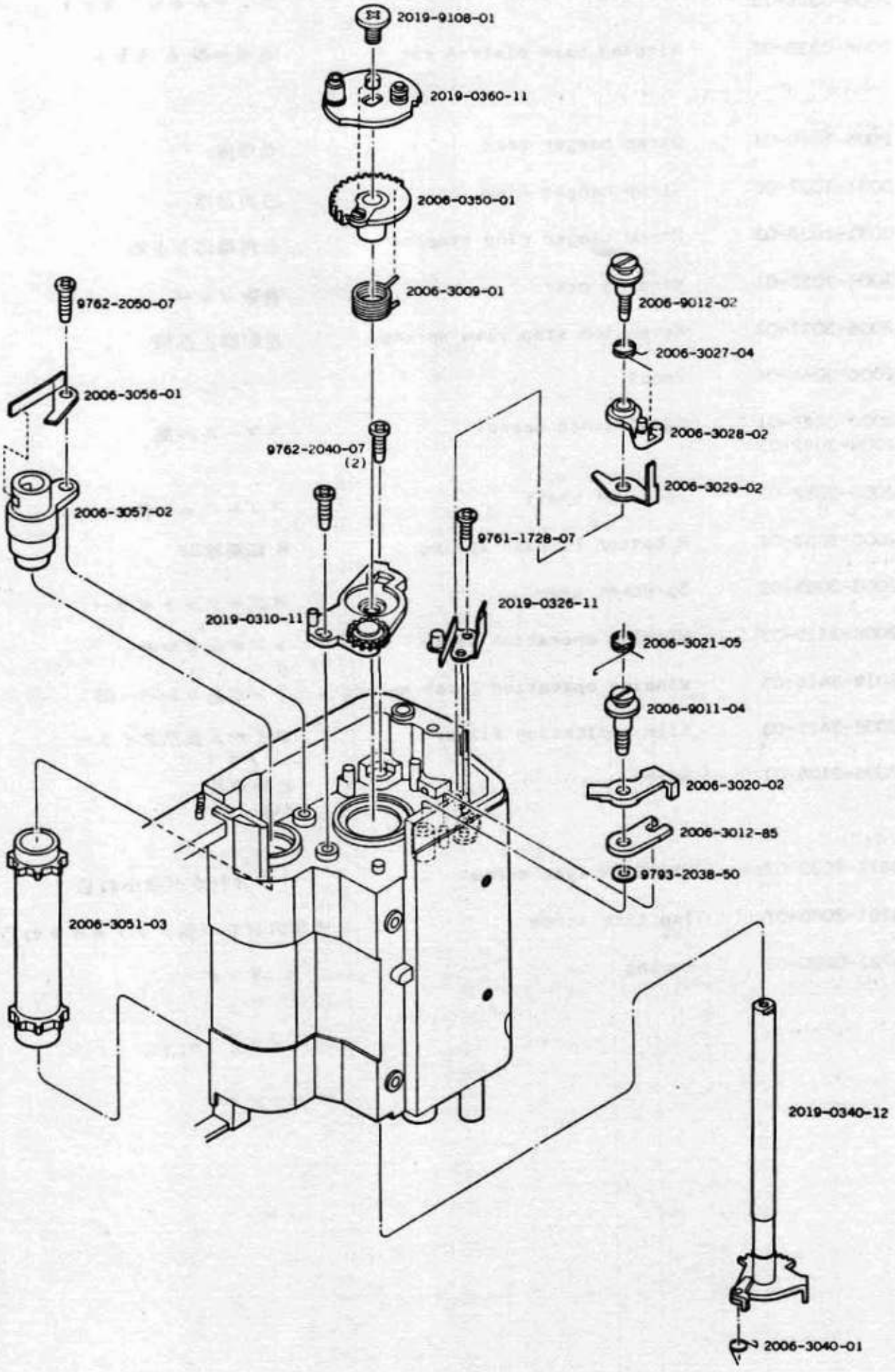
Part No.	Part Name		Qty.
2009-0503-14	Mirror box set	ミラーボックスセット	1
(2006-5112-03)	Mirror cushion	ミラークッション	1
(2006-5114-01)	Mirror cushion-B	ミラークッションB	1
2006-0521-02	Mirror operation lever-set	ミラー操作レバーセット	1
2006-0558-02	Mirror holder set	ミラーホルダーセット	1
2006-0561-81	Operation lever-B base set(Right)	ミラー操作レバB軸台セット（右）	1
2006-0562-01	Operation lever-B base set(Left)	ミラー操作レバーB軸台セット（左）	1
2006-5019-01	Mirror box apron	ミラーボックスエプロン	1
2006-5021-01	Mirror release lever	ミラーレリーズレバー	1
2006-5023-02	Mirror release lever spring	ミラーレリーズレバーSP	1
2006-5027-01	Flare shield plate(bottom)	フレアー防止シート（下）	1
2006-5028-01	Flare shield plate(Left side)	フレアー防止シート（左）	1
2006-5029-01	Flare shield plate (Right side)	フレアー防止シート（右）	1
2006-5030-01	Flare shield support plate	フレアー防止シート補助板	1
2009-5081-01	Mirror box cover	ミラーボックス穴カバー	1
2006-5110-01	Mirror support stopper-A	ミラー補助ストッパーA	1
2006-5111-01	Mirror stopper	ミラーストッパー	1
2006-5113-02	Mirror support stopper-B	ミラー補助ストッパーB	1
2006-5116-05	Mirror operation lever-B	ミラー作動レバー	1
2006-5117-04	Mirror operation lever spring	ミラー操作レバーSP	1
2006-5118-01	Mirror box light shield plate	ミラーボックス遮光片	1
2006-5119-01	Mirror stopper gum	ミラーストッパーゴム	1
2006-5120-82	Mirror arm cushion	ミラーアームクッション	1
2019-5806-01	Mirror	ミラー	1
2006-9106-01	Screw	止めビス	1
9611-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	6
9721-0080-13	E-ring	Eリング	1
9721-0150-13	E-ring	Eリング	3
9794-3858-20	Washer	薄ワッシャー	1


(9613-1418-01)
2006-0385-01
9762-1745-02 (2)
2019-3407-01
9761-2055-07
(3)
2019-0381-11
2006-3404-02
2006-3414-07
9721-0120-13
2006-3408-05
2006-3410-03
2006-3411-04
9792-1628-40
2019-0384-11
2006-3412-03

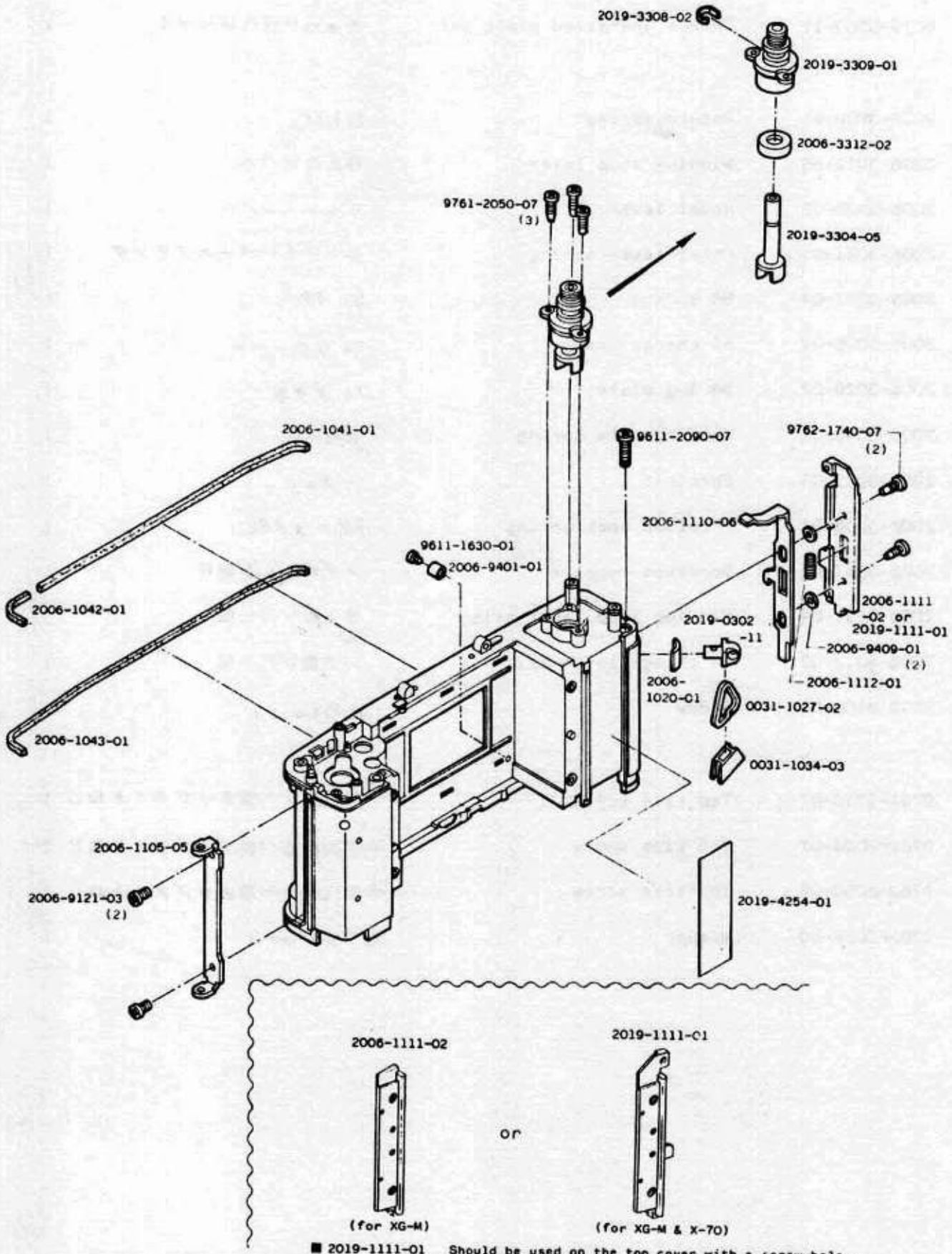
Part No.	Part Name		Qty.
2019-0381-11	Counter dial set	カウンターダイヤルセット	1
2019-0384-11	Winding base plate-B set	巻取台板Bセット	1
2006-0385-01	Film indication lever set	フイルム表示レバーセット	1
(9613-1418-01)	Phillips type screw	十字穴付半丸皿頭小ねじ	1
2006-3404-02	Counter return spring	カウンター戻しSP	1
2019-3407-01	Counter index	カウンター指標	1
2006-3408-05	Counter operation lever set	カウンター駆動操作レバー	1
2006-3410-03	Counter operation gear-B set	カウンター駆動ギヤー	1
2006-3411-04	Counter operation gear-C set	カウンター伝達ギヤー	1
2006-3412-03	Counter operation gear-A set	カウンター連結ギヤー	1
2006-3414-07	Return lever spring	ゼロリターンSP	1
9761-2055-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	3
9762-1745-02	Tap tite screw	十字穴付なべ頭小ねじ	2
9721-0120-13	E-ring	E リング	1
9792-1628-40	Washer	薄ワッシャー	1


9761-2040-07 (2)
■ Use each part in combination (2006-0325-12 and 2006-3042-01, 2006-0325-13 and 2006-3042-03).
■ それぞれペアーで使用して下さい。
2006-3042-01
2006-0325-12
(for XG-M)
2006-3043-03
2006-0325-13
(for XG-M & X-70)
9611-2090-07
2006-3032-01
2006-9106-01
2006-0338-02
2006-3055-02
2006-3415-03
2006-3037-02
2019-3416-05
2006-3053-02
2006-3052-03
2006-0325-13
2006-0325-12
9721-0200-03
2006-3042-01 or 2006-3042-03
2006-3421-03
2006-3041-04
2006-1020-01
2019-0302-11
0031-1027-02
0031-1034-03

Part No.		Part Name		Qty
2019-0302-11		Strap hanger set	吊環セット	1
2006-0325-12 2006-0325-13	or	Spool gear set	スプールギャーセット	1
2006-0338-02		Winding base plate-A set	巻取台板 A セット	1
2006-1020-01		Strap hanger seat	吊環座	1
0031-1027-02		Strap hanger ring	三角吊環	1
0031-1034-03		Strap hanger ring stopper	三角環回り止め	1
2006-3032-01		Winding gear	巻取ギャー	1
2006-3037-02		Reversion stop claw spring	逆転防止爪SP	1
2006-3041-04		Spool	スプール	1
2006-3042-01 2006-3042-03	or	Spool inner barrel	スプール内筒	1
2006-3052-03		Sprocket shaft	スプロケット軸	1
2006-3053-02		R button release spring	R 釦解除SP	1
2006-3055-02		Sprocket gear	スプロケットギヤー	1
2006-3415-03		Winding operation lever	トンボ返りレバー	1
2019-3416-05		Winding operation lever spring	トンボ返りレバーSP	1
2006-3421-03		Film indication filler	フイルム表示フイラー	1
2006-9106-01		Screw	止めねじ	1
9611-2090-07		Phillips type screw	十字穴付なべ頭小ねじ	1
9761-2040-07		Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9721-0200-03		E-ring	E リング	1

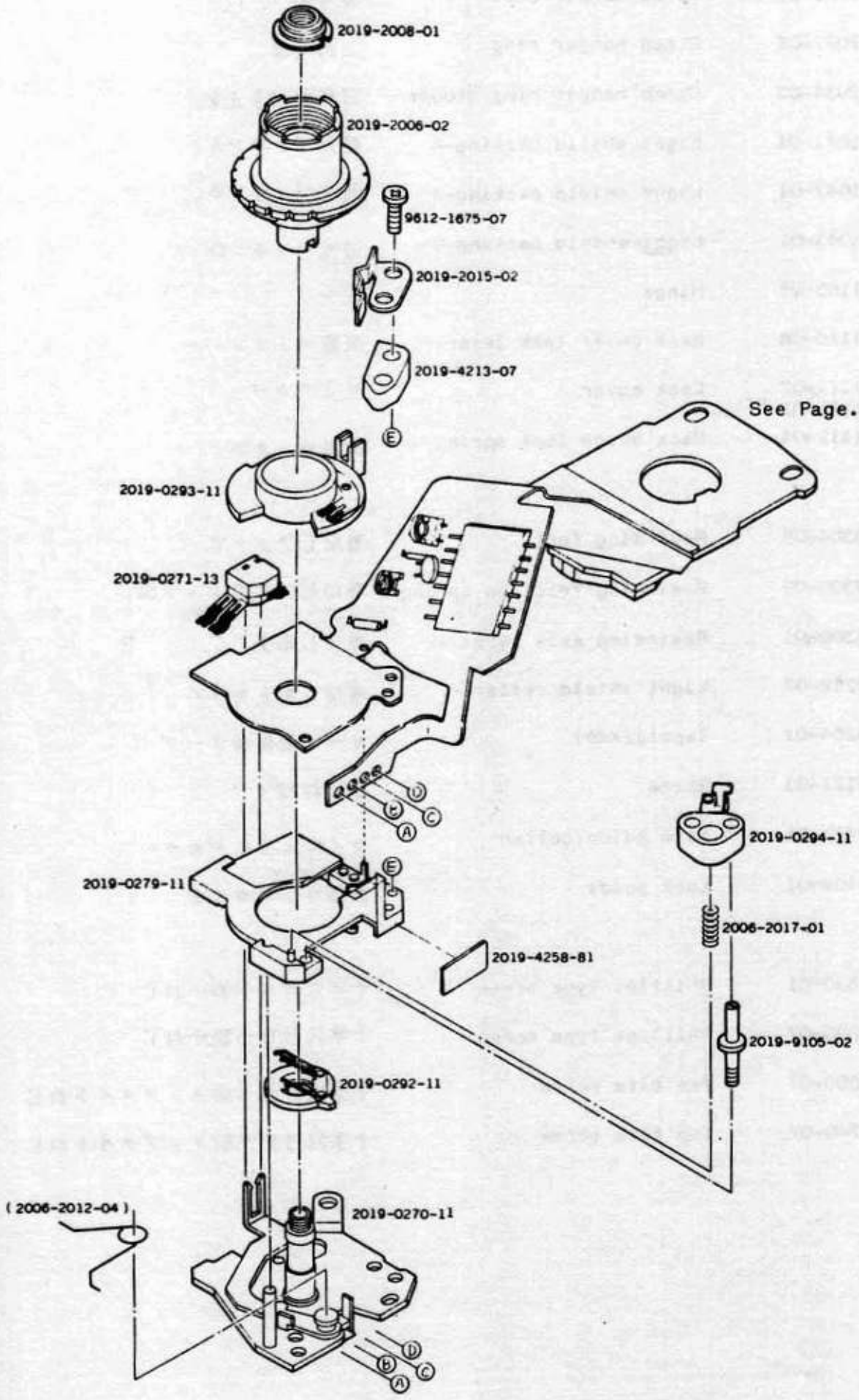

2019-9108-01
2019-0360-11
2006-0350-01
2006-3009-01
9762-2050-07
2006-3056-01
2006-3057-02
9762-2040-07
(2)
2006-9012-02
2006-3027-04
2006-3028-02
2006-3029-02
9761-1728-07
2019-0310-11
2019-0326-11
2006-3021-05
2006-9011-04
2006-3020-02
2006-3012-85
9793-2038-50
2006-3051-03
2019-0340-12
2006-3040-01

Part No.	Part Name		Qty
2019-0310-11	Winding axis receiver set	巻取軸受セット	1
2019-0326-11	S4 contact set	S4 接片セット	1
2019-0340-12	Winding operation plate set	巻取操作板セット	1
2006-0350-01	Shutter charge gear-D set	シャッターチャージギヤーセット	1
2019-0360-11	Charge operation plate set	チャージ操作板セット	1
2006-3009-01	Return spring	戻しSP	1
2006-3012-85	Winding stop lever	巻止めレバー	1
2006-3020-02	Reset lever	リセットレバー	1
2006-3021-05	Reset lever spring	リセットレバースプリング	1
2006-3027-04	S4 spring	S4 SP	1
2006-3028-02	S4 charge lever	S4 切換レバー	1
2006-3029-02	S4 lug plate	S4 ラグ板	1
2006-3040-01	Winding calw spring	巻取爪SP	1
2006-3051-03	Sprocket	スプロケット	1
2006-3056-01	R button lock spring	R釦ロックSP	1
2006-3057-02	Sprocket receiver	スプロケット軸受	1
2006-9011-04	Winding stop lever axis	巻止めレバー軸	1
2006-9012-02	S4 change lever axis	S4切換レバー軸	1
2019-9108-01	Screw	止めねじ	1
9761-1728-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9762-2004-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9762-2050-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9793-2038-50	Washer	薄ワッシャー	1



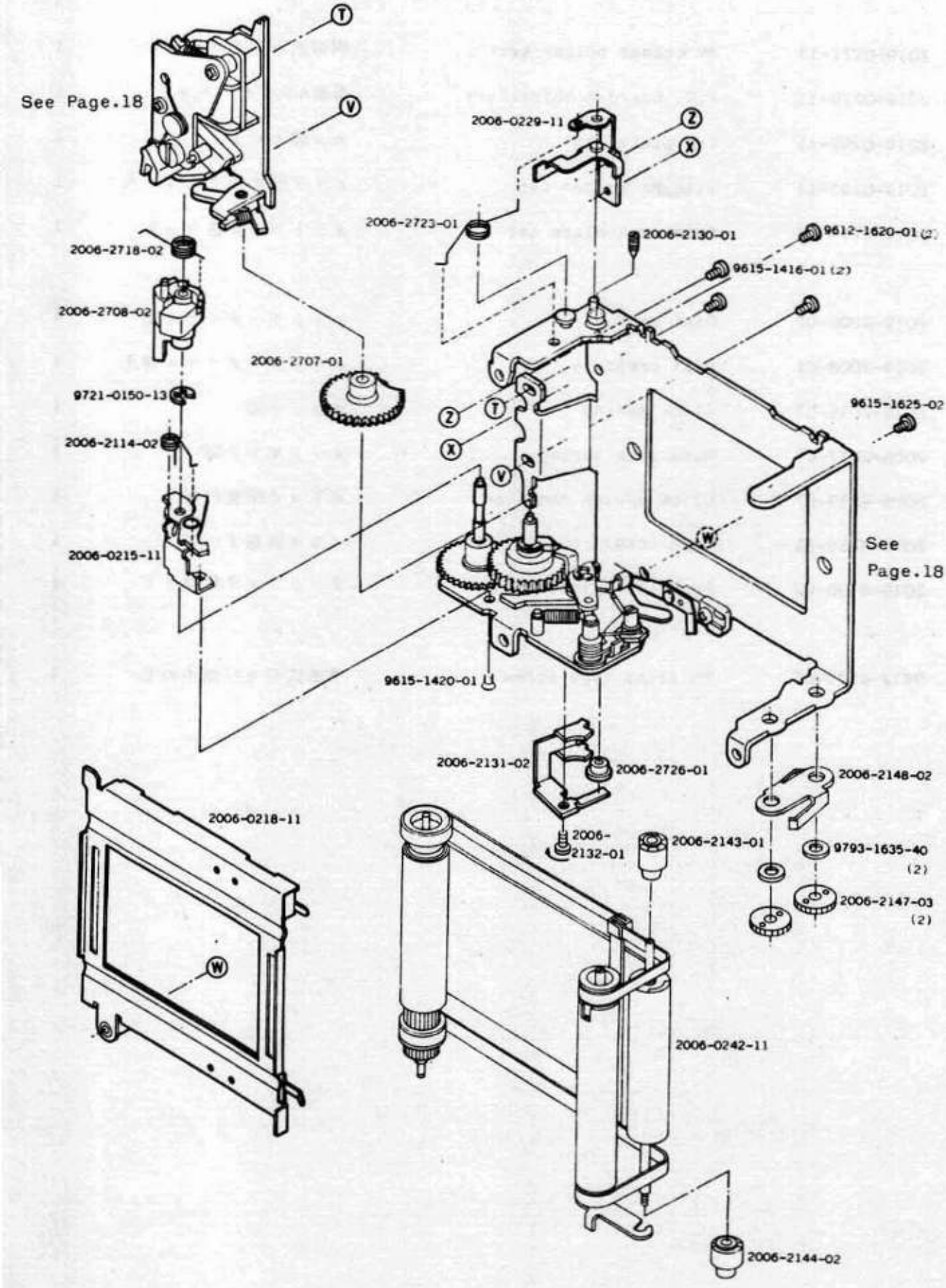
■ 2019-1111-01 Should be used on the top cover with a screw-hole.
■ 上カバーにビス穴が付いている物には2019−1111−01を使用して下さい。

Part No.		Part Name		Qty.
2019-0302-11		Strap hanger set	吊環セット	1
2006-1020-01		Strap hanger seat	吊環座	1
0031-1027-02		Strap hanger ring	三角吊環	1
0031-1034-03		Strap hanger ring stopper	三角環回り止め	1
2006-1041-01		Light shield packing-A	遮光パッキンA	1
2006-1042-01		Light shield packing-B	遮光パッキンB	1
2006-1043-01		Light shield packing-C	遮光パッキンC	1
2006-1105-05		Hinge	ヒンジ	1
2006-1110-06		Back cover lock lever	裏蓋ロックレバー	1
2006-1111-02 2019-1111-01	or	Lock cover	ロックカバー	1
2006-1112-01		Back ocver lock spring	裏蓋ロックSP	1
2019-3304-05		Rewinding fork	巻戻しフォーク	1
2019-3308-02		Rewinding friction spring	巻戻しフリクションSP	1
2019-3309-01		Rewinding axis receiver	巻戻し軸受	1
2006-3312-02		Light shield collar	巻戻し遮光カラー	1
2019-4254-01		Tape(12X45)	リード線接着テープ	1
2006-9121-03		Screw	止めねじ	2
2006-9401-01		Film guide collar	フイルムガイドカラー	1
2006-9409-01		Lock guide	裏蓋ロックガイド	2
9611-1630-01		Phillips type screw	十字穴付なべ頭小ねじ	1
9611-2090-07		Phillips type screw	十字穴付なべ頭小ねじ	3
9761-2050-07		Tap tite screw	十字穴付なべ頭タップタイトねじ	3
9762-1740-07		Tap tite screw	十字穴付なべ頭タップタイトねじ	2

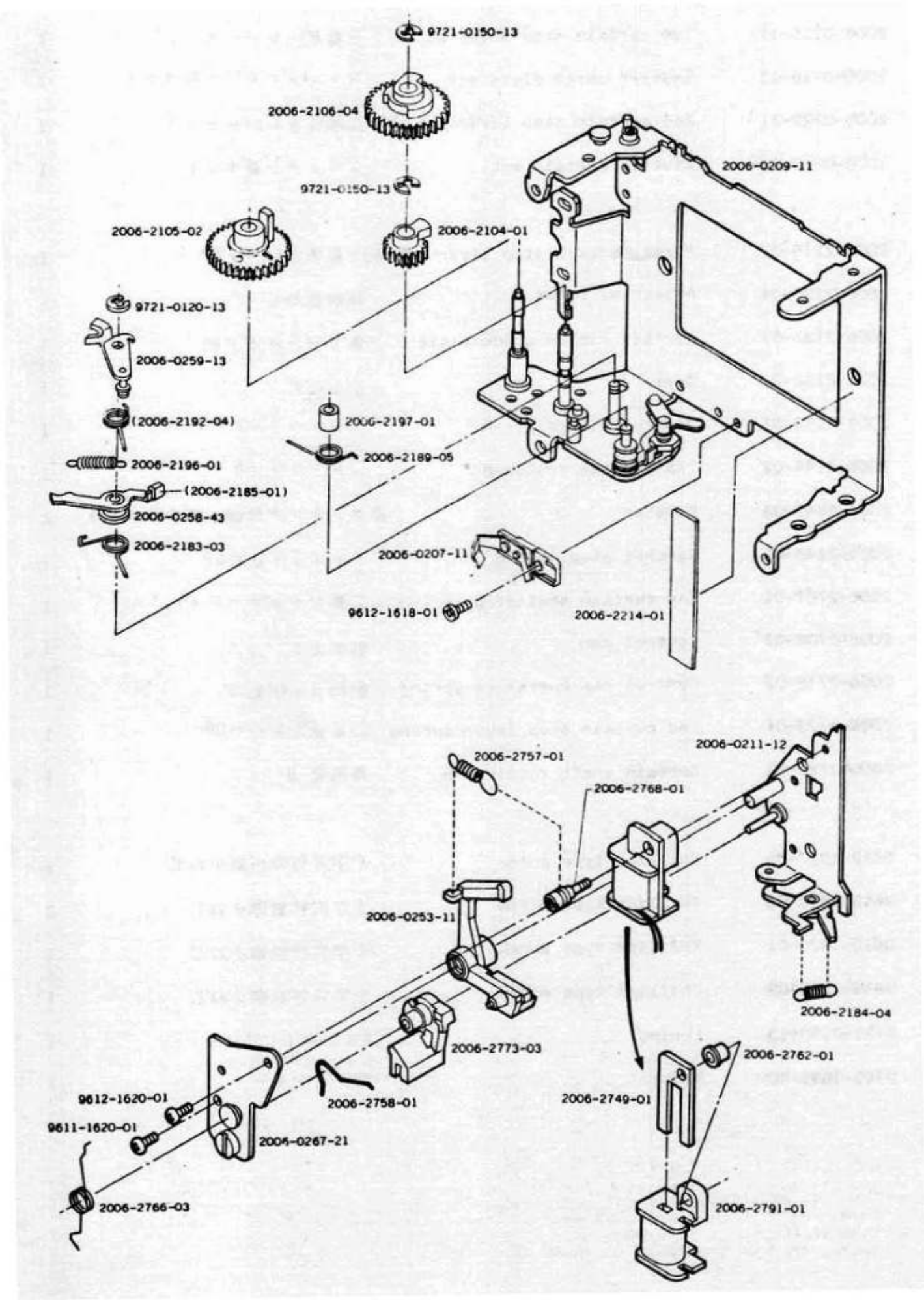

2019-2008-01
2019-2006-02
9612-1675-07
2019-2015-02
2019-4213-07
E
See Page.19
2019-0293-11
2019-0271-13
D
C
B
A
2019-0294-11
2019-0279-11
E
D
2019-4258-81
2006-2017-01
2019-9105-02
2019-0292-11
(2006-2012-04)
2019-0270-11
D
b
C
A

Part No.	Part Name		Qty.
2019-0270-11	Shutter speed dial base plate set	シャッターダイヤル台板セット	1
(2006-2012-04)	AM change spring	AM切換SP	1
2019-0271-13	AM change holder set	AM切換ホルダーセット	1
2019-0279-11	P.C. board-A holder set	基板Aホルダーセット	1
2019-0292-11	Cam plate set	カム板セット	1
2019-0293-11	Main SW holder set	メインSWホルダーセット	1
2019-0294-11	Auto lock plate set	オートロック板セット	1
2019-2006-02	Dial axis	シャッターダイヤル軸	1
2019-2008-01	Dial pressure	シャッターダイヤル押え	1
2019-2015-02	Click spring	クリックSP	1
2006-2017-01	Auto lock spring	オートロックSP	1
2019-4213-07	Click spring receiver	クリックSP受け板	1
2019-4258-81	Tape (6X9)	フレキ接着テープ	1
2019-9105-02	Auto lock plate guide	オートロック板ガイド	1
9612-1675-07	Phillips type screw	十字穴付なべ頭小ねじ	1

Assy. Part No. 2006-0222-11



Part No.	Part Name		Qty.
2006-0222-11	Shutter block	シャッターブロック	1
2006-0215-11	1st curtain stop lever set	一幕係止レバーセット	1
2006-0218-11	Shutter cover plate set	シャッターカバー板セット	1
2006-0229-11	2nd curtain stop lever set	二幕係止レバーセット	1
2006-0242-11	Shutter curtain set	シャッター幕セット	1
2006-2114-02	First curtain stop lever spring	一幕係止レバーSP	1
2006-2130-01	Adjusting screw	幕調整ねじ	1
2006-2131-02	Curtain ribbon guide plate	幕リボンガイド板	1
2006-2132-01	Screw	止めねじ	1
2006-2143-01	2nd curtain roller-A	二幕ローラーA	1
2006-2144-02	2nd curtain roller-B	二幕ローラーB	1
2006-2147-03	Ratchet	幕スプリング筒軸止めラチエット	2
2006-2148-02	Ratchet stop spring	ラチエット止めSP	1
2006-2707-01	2nd curtain shutter gear	二幕シャッターギャー	1
2006-2708-02	Control cam	制御カム	1
2006-2718-02	Control cam operation spring	制御カム駆動SP	1
2006-2723-01	2nd curtain stop lever spring	二幕係止レバーSP	1
2006-2726-01	Curtain shaft receiver-B	幕軸受 B	1
9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	2
9615-1416-01	Phillips type screw	十字穴付皿頭小ねじ	2
9615-1420-01	Phillips type screw	十字穴付皿頭小ねじ	1
9615-1625-02	Phillips type screw	十字穴付皿頭小ねじ	1
9721-0150-13	E-ring	Eリング	1
9793-1635-40	Washer	薄ワッシャー	2


9721-0150-13
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9721-0150-13
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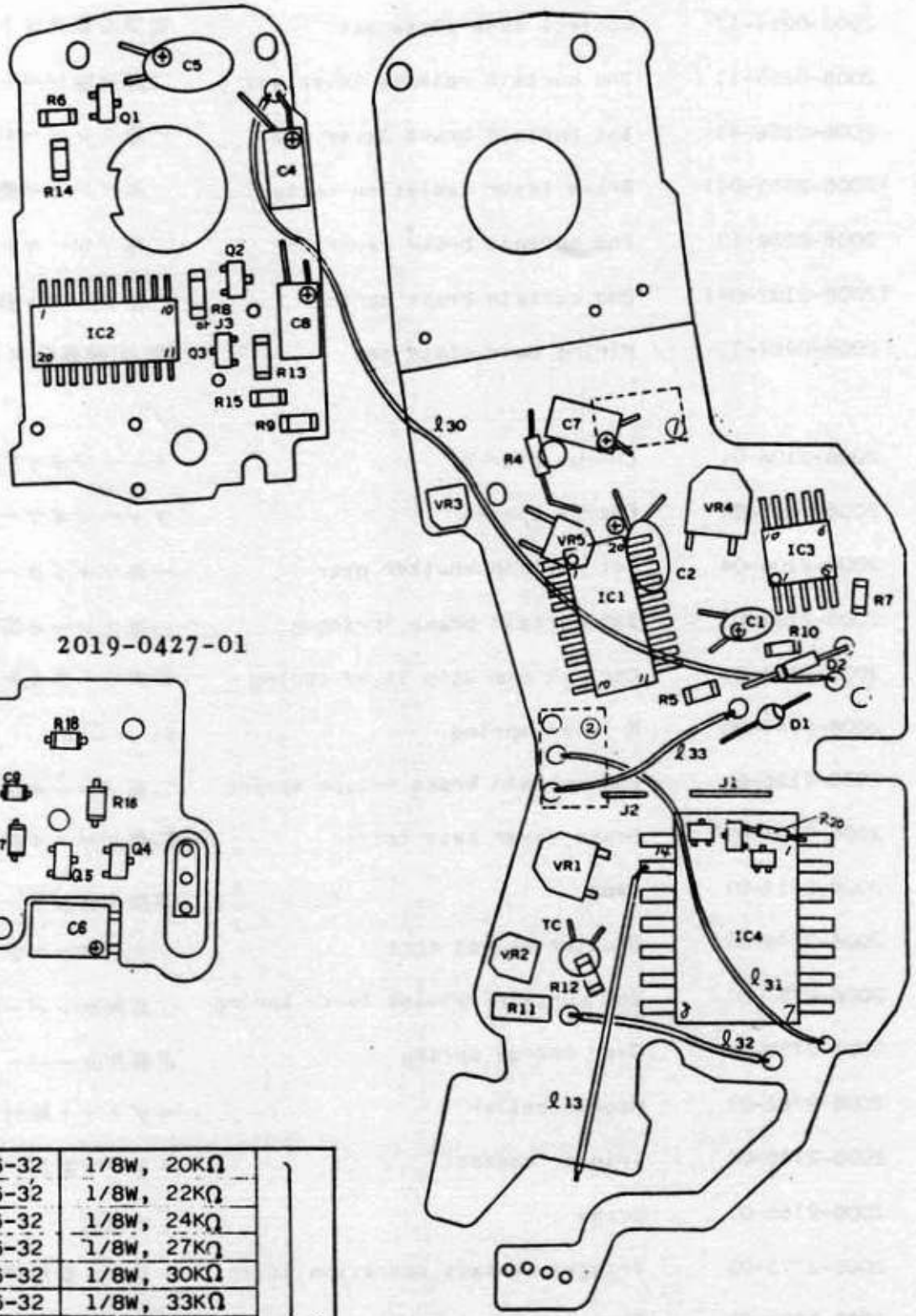
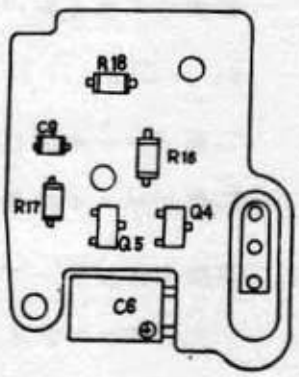
2006-2105-02
2006-2104-01
9721-0120-13
2006-0259-13
(2006-2192-04)
2006-2197-01
2006-2189-05
2006-2196-01
(2006-2185-01)
2006-0258-43
2006-2183-03
2006-0207-11
9612-1618-01
2006-2214-01
2006-2757-01
2006-0211-12
2006-2768-01
2006-0253-11
2006-2184-04
2006-2773-03
2006-2762-01
9612-1620-01
2006-2758-01
2006-2749-01
9611-1620-01
2006-0267-21
2006-2766-03
2006-2791-01

Part No.	Part Name		Qty.
2006-0207-11	X contact plate set	X接片セット	1
2006-0209-11	Shutter base plate set	シャッター台板セット	1
2006-0211-12	Control base plate set	制御台板セット	1
2006-0253-11	2nd curtain release lever set	二幕解除レバーセット	1
2006-0258-43	1st curtain brake lever set	一幕ブレキーレバーセット	1
(2006-2185-01)	Brake lever isolation collar	一幕ブレーキ絶縁カラー	1
2006-0259-13	2nd curtain brake lever set	二幕ブレーキレバーセット	1
(2006-2192-04)	2nd curtain brake spring	二幕ブレーキSP	1
2006-0267-21	Wiring base plate set	Mg 配線基板セット	1
2006-2104-01	Charge gear-B	チャージギヤーB	1
2006-2105-02	Charge gear-A	チャージギヤーA	1
2006-2106-04	1st curtain shutter gear	一幕シャッターギヤー	1
2006-2183-03	1st curtain brake spring-B	一幕ブレーキSP B	1
2006-2184-04	Control cam stop lever spring	制御カム係止レバーSP	1
2006-2189-05	X lever spring	Xレバーsp	1
2006-2196-01	2nd curtain brake return spring	二幕ブレーキ戻しSP	1
2006-2197-01	Brake lever axis collar	二幕ブレーキ消音カラー	1
2006-2214-01	Tape	幕緑金保護テープ	1
2006-2749-01	Shutter magnet core	シャッターマグネット鉄芯	1
2006-2757-01	2nd curtain release lever spring	二幕解除レバーSP	1
2006-2758-01	Over charge spring	吸着片オーバーチャージSP	1
2006-2762-01	Magnet collar	マグネット取付カラー	1
2006-2766-03	Trigger contact	トリガー接片	1
2006-2768-01	Screw	止めねじ	1
2006-2773-03	Trigger contact operation lever	トリガー接片作動レバー	1
2006-2791-01	Shutter magnet bobbin	シャッターマグネットボビン	1
9611-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9612-1618-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9721-0120-13	E-ring	Eリング	1
9721-0150-13	E-ring	Eリング	2

2019-0402-01



2019-0427-01



R4	9422-2036-32	1/8W, 20KΩ	1
	9422-2236-32	1/8W, 22KΩ	
	9422-2436-32	1/8W, 24KΩ	
	9422-2736-32	1/8W, 27KΩ	
	9422-3036-32	1/8W, 30KΩ	
	9422-3336-32	1/8W, 33KΩ	
	9422-3936-32	1/8W, 39KΩ	
	9422-4736-32	1/8W, 47KΩ	
	9422-5636-32	1/8W, 56KΩ	
	9422-6836-32	1/8W, 68KΩ	
	9422-1046-32	1/8W, 100KΩ	
	9422-2046-32	1/8W, 200KΩ	

9372-2062-01(TC) Should employ 9422-3926-62 as the R12.
9372-2862-03(TC) should employ 9422-4726-62 as the R12.

TC 9372−2062−01に対してR12は9422−3926−62を使用して下さい又、
TC 9372−2862−31に対してR12は 9422−4726−62を使用して下さい。

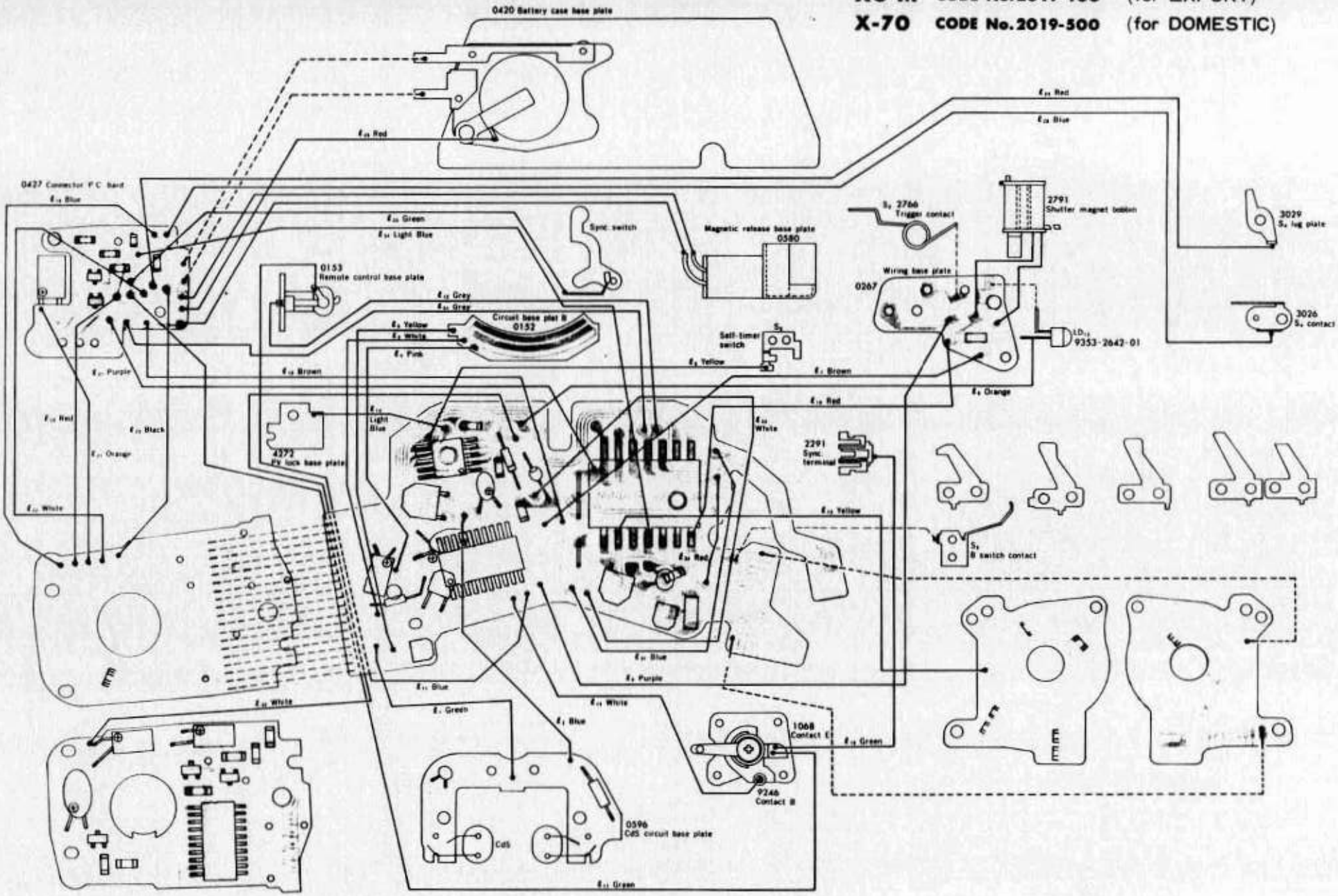
Assy. Part No. 2019-0402-01 Assy. Part Name Flexible P.C. board set
フレキシブル基板セット

Symbol	Part No.	Com	Part Name	Type.	Qty.
IC1	2006-4301-03		I C	M51865	1
IC2	2006-4302-03			M51866	1
IC3	2006-4303-03			M51867	1
IC4	2019-4304-01			HIC	1
D1	9361-1631-01		Diode	MB162	1
D2	9361-5631-11			IS953	1
Q3 Q2 Q1	9363-1632-02	Q3,Q4	Transistor	2SA812	3
TC	9372-2062-01	or	Thermistor	112202-02	1
	9372-2862-03			112502-02	
R5	9422-1046-62		Fixed resistor	1/8W, 100KΩ	1
R6	9422-3046-62			1/8W, 300KΩ	1
R7	9422-6806-62			1/8W, 68Ω	1
R8	9422-3916-62			1/8W, 390Ω	1
	9422-8216-62			1/8W, 820Ω	
	9422-1826-62			1/8W, 1.8KΩ	
	9422-3326-62			1/8W, 3.3KΩ	
J3	2019-8443-01		Jump lead wire	φ0.4 ℓ=4	
R9	9422-3016-62		Fixed resistor	1/8W, 300Ω	1
R15 R10	9422-2416-62			1/8W, 240Ω	2
R11	9423-2426-63			1/4W, 2.4KΩ	1
R12	9422-3926-62	or		1/8W, 3.9KΩ	1
	9422-4726-62			1/8W, 4.7KΩ	
R13	9422-3036-62			1/8W, 30KΩ	1
R14	9422-1036-62			1/8W, 10KΩ	1
R20	9422-2036-32			1/8W, 20KΩ	0-1
VR5 VR1	9472-2039-38		Variable resistor	VG062K 20KΩ	2
VR3 VR2	9472-1539-63			EVM-14G 15KΩ	2
VR4	9472-1529-38			VG062K 1.5KΩ	1
C1	9535-1555-36		Condenser	35V/1.5μF TYPE202	1
C2	9535-6845-31			35V/0.68μF CSI5E	1
C4	9511-2265-65			6.3V/22μF ECEA0JK	1
C5	9531-4765-31			3.15V/100μF CSI5E	1
C7	9515-2255-61			50V/2.2μF ECEA1HK	1
C8	9511-3365-61			6.3V/33μF ECEA0JK	1
ℓ13	2006-8401-01		Lead wire Yellow	φ0.08/7wires ℓ=30	1
ℓ30	2006-8409-01		White	φ0.08/7wires ℓ=85	1
ℓ31	2006-8403-01		Blue	φ0.08/7wires ℓ=45	1
ℓ32	2006-8411-01		Red	φ0.08/7wires ℓ=20	1
ℓ33	2006-8409-01		White	φ0.08/7wires ℓ=25	1
J1	2019-8441-01			φ0.4 ℓ=8	1
J2	2019-8442-01		Jump lead wire	φ0.4 ℓ=5	1
② ①	2019-4258-31		Isolation tape	6X9	2

Assy. Part No. 2019-0427-01 Assy. Part Name Connector P.C. board set
中継基板セット

Symbol	Part No.	Com	Part Name	Type.	Qty.
Q4 Q5	9362-1633-02	Q3,Q4	Transistor	2SC1623	2
R16	9432-2258-62		Fixed resistor	1/8W, 2.2MΩ	1
R17	9432-1558-62			1/8W 1.5MΩ	1
R18	9432-3958-62			1/8W, 3.9MΩ	1
C6	9511-1075-61		Condenser	6.3V/100μF ECEA0JK	1
C9	9564-6824-61			25V/6800PF CM21WR	1
③	2019-1066-02		Motor drive connect Holder モータードライブ接点ホルダー		1

XG-M CODE No.2019-100 (for EXPORT)
X-70 CODE No.2019-500 (for DOMESTIC)



Lead wires list

Symbol				Part No.	Color	Type.	Qty.
			ℓ1	2006-8417-01	Green	ϕ0.08/7wires ℓ=35	1
			ℓ2	2006-8403-01	Blue	ϕ0.08/7wires ℓ=55	1
	ℓ30	ℓ15	ℓ3	2006-8409-01	White	ϕ0.08/7wires ℓ=85	3
			ℓ4	2006-8408-01	Pink	ϕ0.08/7wires ℓ=85	1
			ℓ5	2006-8401-01	Yellow	ϕ0.08/7wires ℓ=75	1
			ℓ6	2006-8401-01	Yellow	ϕ0.08/7wires ℓ=110	1
			ℓ7	2006-8402-01	Brown	ϕ0.08/7wires ℓ=90	1
			ℓ8	2006-8413-01	Purple	ϕ0.08/7wires ℓ=90	1
			ℓ9	2006-8404-01	Orange	ϕ0.08/7wires ℓ=110	1
			ℓ10	2006-8411-01	Red	ϕ0.08/7wires ℓ=100	1
		ℓ19	ℓ11	2006-8403-01	Blue	ϕ0.08/7wires ℓ=100	2
			ℓ12	2006-8406-01	Grey	ϕ0.08/7wires ℓ=130	1
			ℓ13	2006-8401-01	Yellow	ϕ0.08/7wires ℓ=30	1
			ℓ14	2009-8427-01	Light Blue	ϕ0.08/7wires ℓ=145	1
			ℓ16	2006-8417-01	Green	ϕ0.08/7wires ℓ=200	1
			ℓ17	2006-8417-01	Green	ϕ0.08/7wires ℓ=215	1
			ℓ18	2006-8402-01	Brown	ϕ0.08/7wires ℓ=140	1
			ℓ20	2006-8411-01	Red	ϕ0.08/7wires ℓ=90	1
			ℓ21	2006-8404-01	Orange	ϕ0.08/7wires ℓ=85	1
			ℓ22	2006-8409-01	White	ϕ0.08/7wires ℓ=95	1
			ℓ23	2006-8414-01	Black	ϕ0.08/7wires ℓ=90	1
			ℓ24	2006-8406-01	Grey	ϕ0.08/7wires ℓ=170	1
			ℓ25	2006-8417-01	Green	ϕ0.08/7wires ℓ=55	1
			ℓ26	2006-8411-01	Red	ϕ0.08/7wires ℓ=25	1
			ℓ27	2006-8413-01	Purple	ϕ0.08/7wires ℓ=160	1
			ℓ28	2006-8403-01	Blue	ϕ0.08/7wires ℓ=140	1
			ℓ29	2006-8411-01	Red	ϕ0.08/7wires ℓ=140	1
			ℓ31	2006-8403-01	Blue	ϕ0.08/7wires ℓ=45	1
			ℓ32	2006-8411-01	Red	ϕ0.08/7wires ℓ=20	1
			ℓ33	2006-8409-01	White	ϕ0.08/7wires ℓ=25	1
			ℓ34	2009-8427-01	Light Blue	ϕ0.08/7wires ℓ=170	1

REPAIR GUIDE

1. Contents of the manual

This manual refers to the following paragraph 2. Regarding the adjustment item, the difference from the XG series is only the adjustment of Manual 180mV on P3. But the flexible base plate is changed, causing alteration in position of each element, therfore, the related adjustment procedure is also mentioned in this manual.

For the adjustment of parts not mentioned, please refer to the 2006 Service Manual.

2. Assembly, adjustment, etc.

Page

■Outer case assembly procedure----------1

■Exposure adjustment

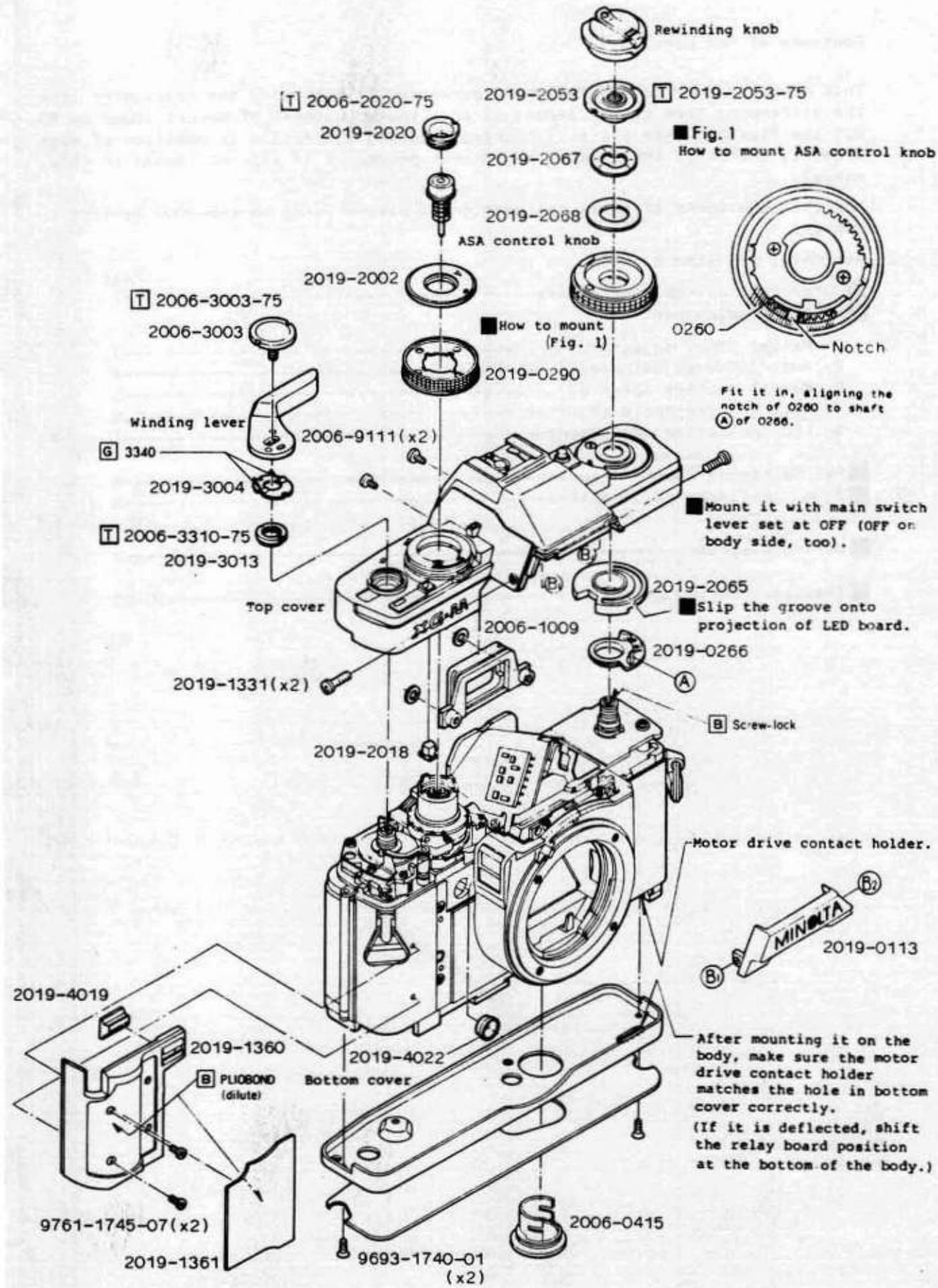
1 Manual 180mV adjustment----------3
2 Auto 180mV adjustment----------4
3 Manual shutter speed adjustment----------5
4 Auto shutter speed adjustment----------5,6
5 LED indication adjustment----------7

■PV. SW timing check----------8
■F No. in-finder adjustment----------8

■Wiring diagram----------9

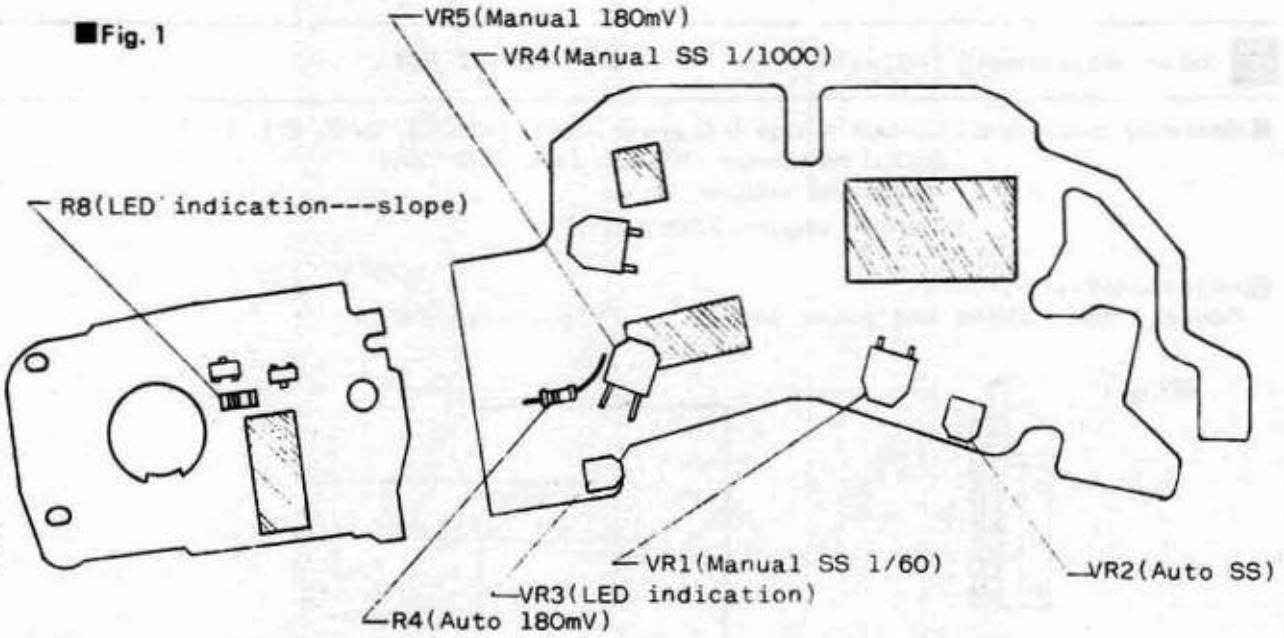
■Trouble shooting chart----------10-20

Outer case assembly procedure



■Adjustment of each variable resistor and fixed resistor Fig.1.

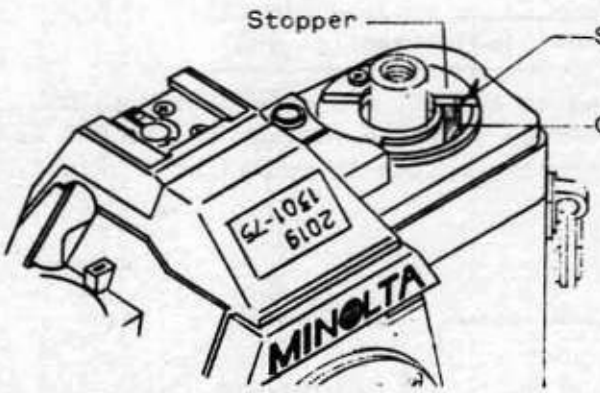
■Fig. 1



■ASA 100 setting method, etc.

1. When adjusting the auto shutter speed and LED indication, used the temporary top cover (2019-1301-75) and set it to ASA100, as explained below.

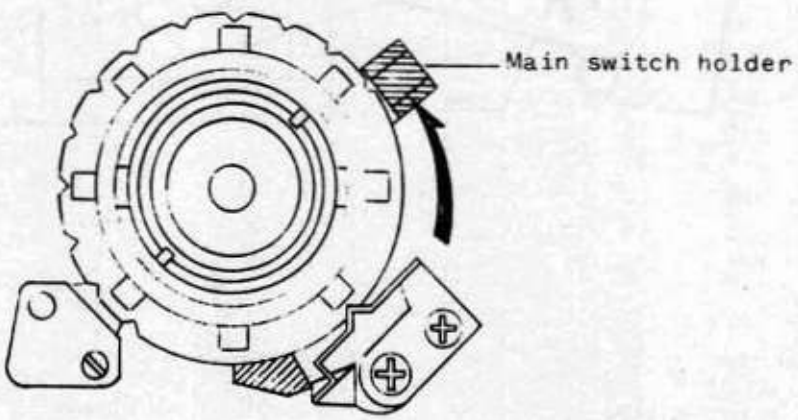
■Fig. 2



● Turn 0266 (ASA brush holder). ASA100 is obtained when the column of 0266 touches the stopper of the temporary top cover.

2. Before adjustment, set the main switch to ON by turning 0293 (main switch holder) in the direction of the arrow below.

■Fig. 3



Measurement of Cds resistance and selection of R1,R2.

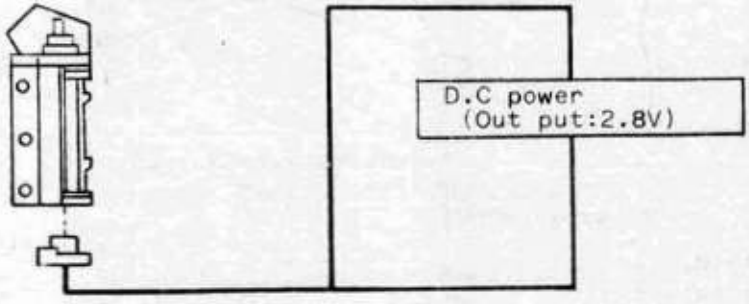
— Refer to 2006 Service Manual (P.28) —

180mV adjustment (Adjustment of VR5, decision of R4)

Measuring instruments : Contant voltage D.C power supply (MODEL 524B, E-1, E-2)
: Digital multimeter (MODEL 2508, 3476, 2507)
: Resistance selector
: Battery adapter (2006-0415-75)

Adjustment procedure
Connect the camera and power source as illustrated below.

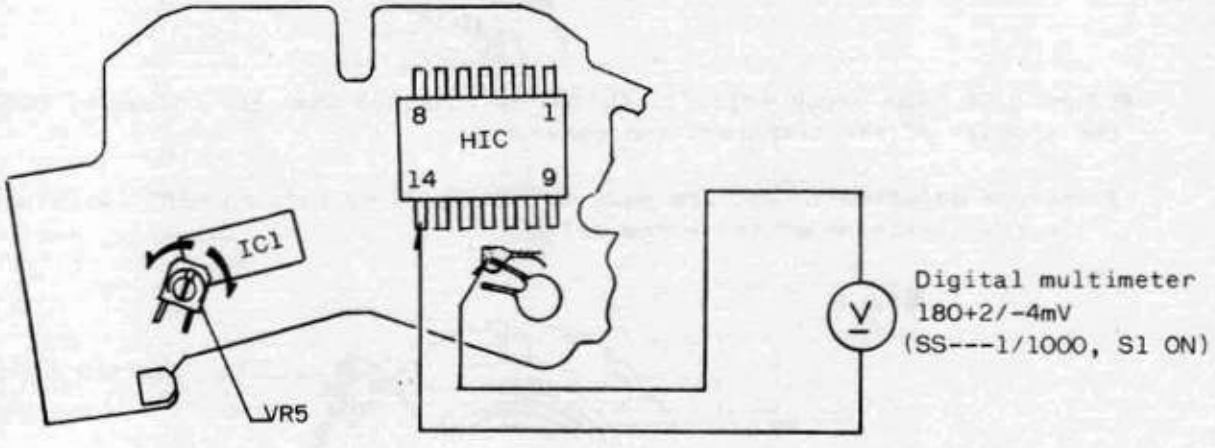
Fig. 1



Manual 180mV adjustment (adjustment of VR5)

1. Set the shutter dial to 1/1000, and main switch to ON.
2. Adjust by turning VR5 so that the voltage of (S1 ON) is 180mV (allowable range: 180+2/-4mV), When shutter button is pushed as in Fig.2.

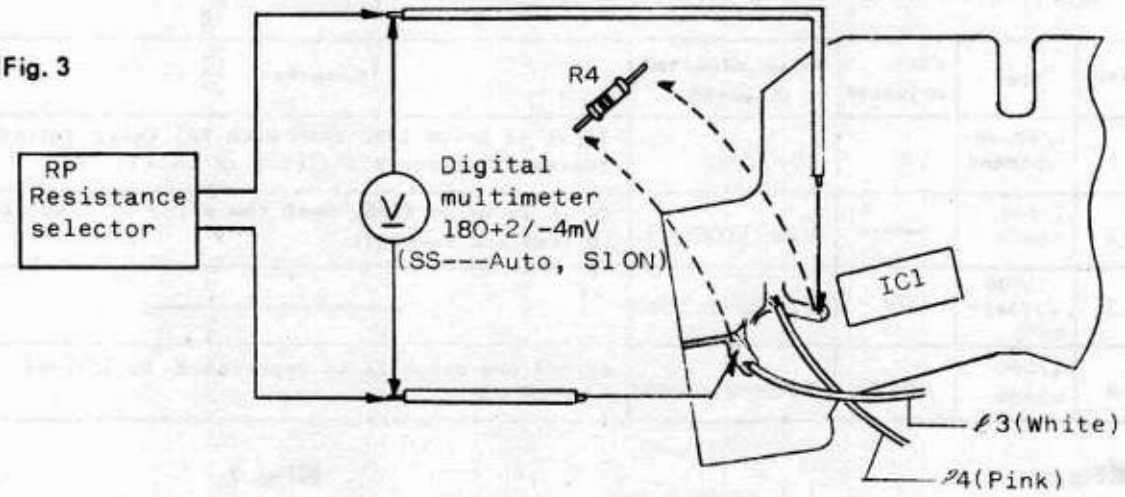
Fig. 2



[2] Auto 180mV adjustmnet (selection of R4)

1. Remove R4 and solder the lead (X2) to the position of R4, then connect the tester as illustrated below.

■Fig. 3



2. Set the shutter dial to A (auto) and main switch to ON; then shift the dial of Rp resistance selector so that the voltage of (S1 ON) approaches 180mV (allowable range: 180+2/-4 mV), when shutter button is pushed.
3. From those in the following table, pick the R4 that is closest to the resistance obtained by the Rp resistance selector; then solder it to the flexible board.
- After soldering, mask sure the voltage is 180+2/-4mV when measured at either terminal of R4 (in this case, remove the Rp resistance selector).
- If the voltage is not within 180+2/-4 mV, re-check it by changing the resistance fo R4, one rank higher of lower.

[Kinds of R4]

Resistance (KΩ)	Part No.	Resistance (KΩ)	Part No.
20	9422-2036-32	39	9422-3936-32
22	9422-2236-32	47	9422-4736-32
24	9422-2436-32	56	9422-5636-32
27	9422-2736-32	68	9422-6836-32
30	9422-3036-32	100	9422-1046-32
33	9422-3336-32	200	9422-2046-32

Manual shutter speed adjustment(adjustment of VR1 VR4)

Measuring instruments: Shutter tester (MODEL S-2101, FS-1DMN4)

Adjustment procedure

1. Adjust according to the procedure given in the table below.

Step	Item	Part adjusted	Value adjusted (checked)	Remarks
1	1/60 adjustment	VR1	15-17ms	If it is below 15mS even with VR1 fully turned, install resistor R20 (2.4KΩ) as in Fig. 2.
2	1 sec. check	——	(830-1100ms)	If it is below 80mS, make the value of 1/60 within 15-18mS and re-check.
3	1/1000 adjustment	VR4	0.865-1.15ms	——
4	1/500 check	——	(1.62-2.42ms)	Beyond the range it is superseded by 1/1000.

Fig. 1

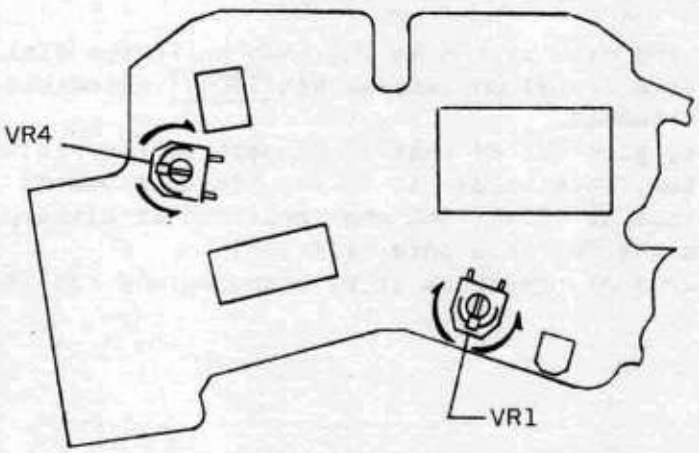
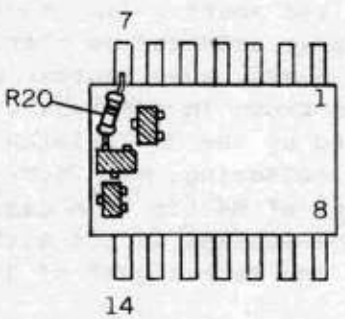


Fig. 2



Auto shutter speed adjustment (adjustment of VR2)

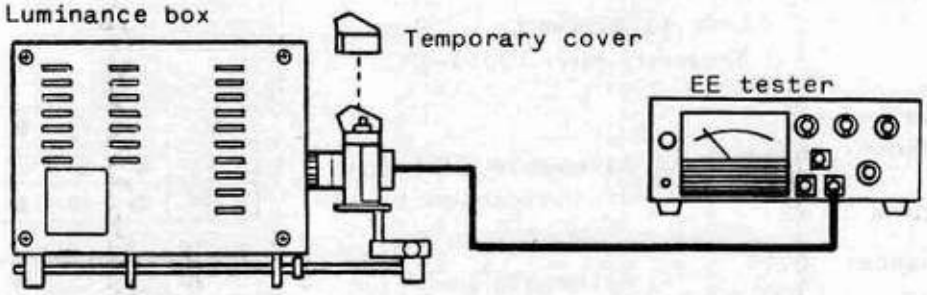
* The adjusting method at EE level with the use of EE tester is described in this paragraph. When making shutter speed adjustment using a timer counter, as in the 2006 service manual, connect the tester as shown in Fing.3 on P6.

Measuring instruments: EE tester (MODEL EE-2101, EE-2111)
: Standard luminance box (MODEL L-2101, L-222, L-223)
: Lens (1.4/50mm)
: Temporary cover (2019-1301-75)

■ Adjustment procedure

1. Set the camera and tester as illustrated below.

■Fig. 1

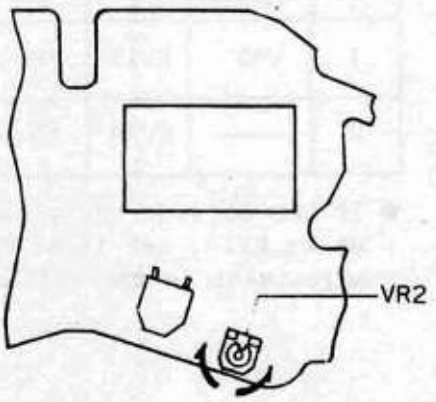


- **Luminance box**
  Luminance: EV 9
  : EV 14
  : K value 1.2
- **Camera**
  Shutter dial : A
  ASA : 100
  Aperture : 5.6
  Distance : ∞
- **EE tester**
  K value dial : 1.2
  ASA dial : 100
  FUNCTION : 35

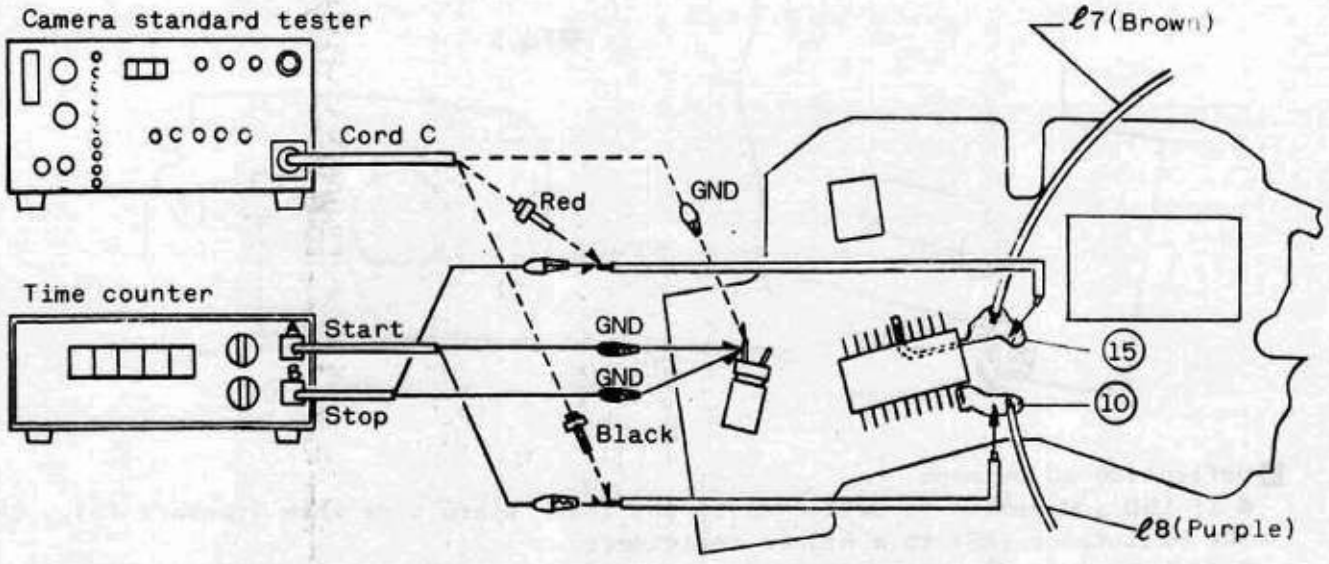
2. Adjustment according to the procedure given in the table below.

Step	Luminance	Part adjusted	Allowable range
1	EV9	VR2	0± 0.8EV
2	EV14	Beyond the allowable range, it is superseded by EV9.	

■Fig. 2



■Fig. 3 (How to connect the time counter or camera standard tester).



- As shown above, solder the measuring lead to terminal ⑩ (start signal) and ⑮ (stop signal) of IC1, and then connect it to the time counter or camera standard tester.
- For the tester setting and adjustment procedure, refer to 2006 Service Manual(P32.)

LED indication adjustment (adjustment of VR3)

Measuring instruments: Standard luminance box (MODEL L-2101, L-222, L-223)
: Lens (1.4/50mm)
: Temporary cover (2019-1301-75)

Standards

(1) Luminance: EV11
ASA : 100
Aperture : F8
} Allowable position of indication (±1EV)

60	○	○	●	●	●
30	●	○	○	○	●
15	●	●	●	○	○

(2) Luminance: EV14
ASA : 100
Aperture : F5.6
} Allowable position of indication

1000	○	○	●	●	●
500	●	○	○	○	●
250	●	●	●	○	○

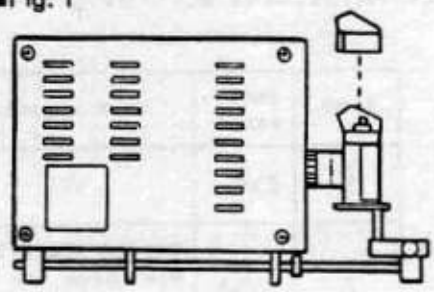
Adjustment procedure

1. Adjsut according to the procedure given in the table below.

Step	Part adjusted	Luminance	F No.	Value adjusted	Allowable range
1	VR3	EV11	F8	LED "30" ON	Standard(1)
2	——	EV14	F5.6	——	Standard(2)

- If LED outside the allowable range lights up at EV14, set it at EV11 or mask the adjustment in the following paragraph.

Fig. 1



- Luminance box
  Luminance: EV9
  EV14
  K value : 1.2
- Camera
  Shutter dial: A
  ASA : 100

Fig. 2

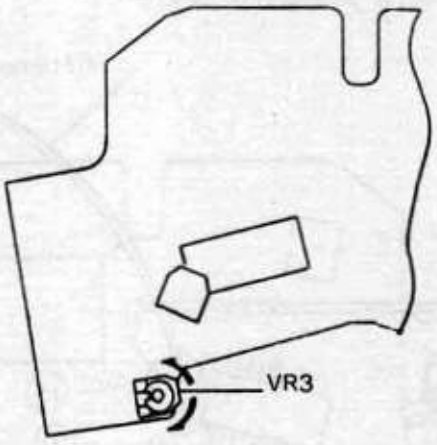
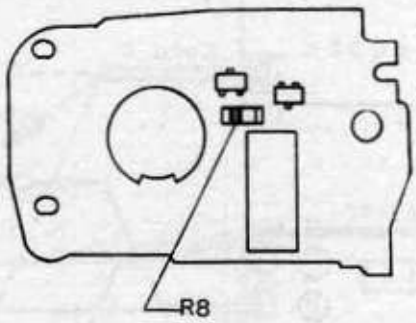


Fig. 3



Deflection adjustment

- If LED indication is deflected to the lower speed side from standard (2)...Change the resistance (R8) to a higher resistance.
- If LED indication is deflected to the higher speed side from standard (2)...Change the resistance (R8) to a lower resistance.

After changing the resistance (R8), perform the adjustment form the beginning.

PV. SW timing check

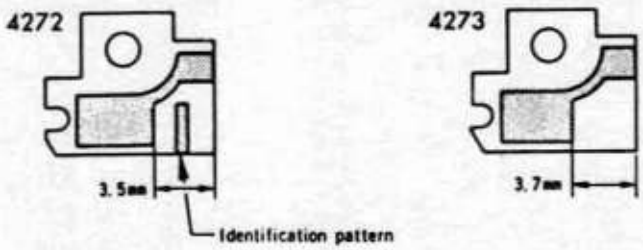
■The PV. switch is designed to turn on when the PV. button is depressed 2.0mm. There is no chance of abnormality unless locking operations of the PV. lever and actuation of the PV. switch are performed out of sequence. So, check the switch according to the following procedure.

(The positions of PV. lever and switch are closest to each other unless inversion occurs between the operational timings of these parts. The range within which the mirror is allowed to be half raised is narrowed, and this is satisfactory.)

(OFF operation check)

1. Set the shutter dial to B.
2. When the shutter is being released with shutter button pressed, the operation will be satisfactory if pushing the PV. button until the PV. lever is locked does not cause the second curtain to run.
   - In case the second curtain runs (the PV. switch turns ON), replace the adjusting PV. lock base plate (4273) and adjust the PV. switch to delay in turning ON.

■Fig. 1

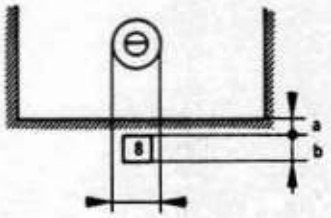


(ON operation check)

1. Push the shutter button with the PV. button fully depressed. It is satisfactory if the shutter is not released.

F No. in-finder adjustment

■Specification

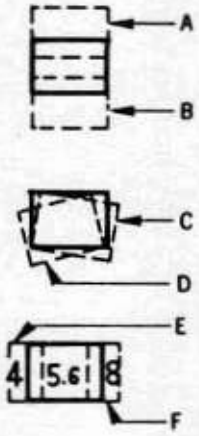


- The F no. indication should be within th frame, and any adjacent number should be invisible at F 5.6.
- Frame position : Height ····· $0 < a \leq b$
  : Within the microprism

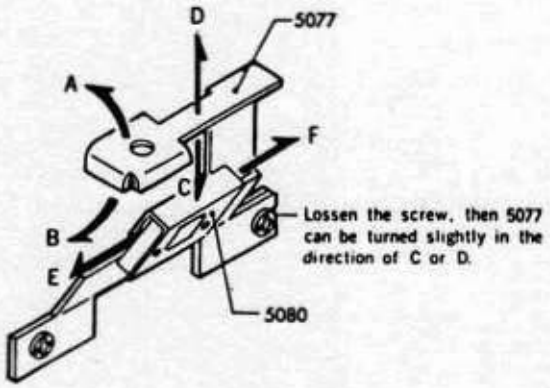
■Adjustment

Check for deflection referring to Fig.2. Then make the adjustment by bending (shifting) 5077 and 5080 in each direction of A~E as shown in Fig.3.

■Fig. 2 (Normal position is shown by thick lines.)

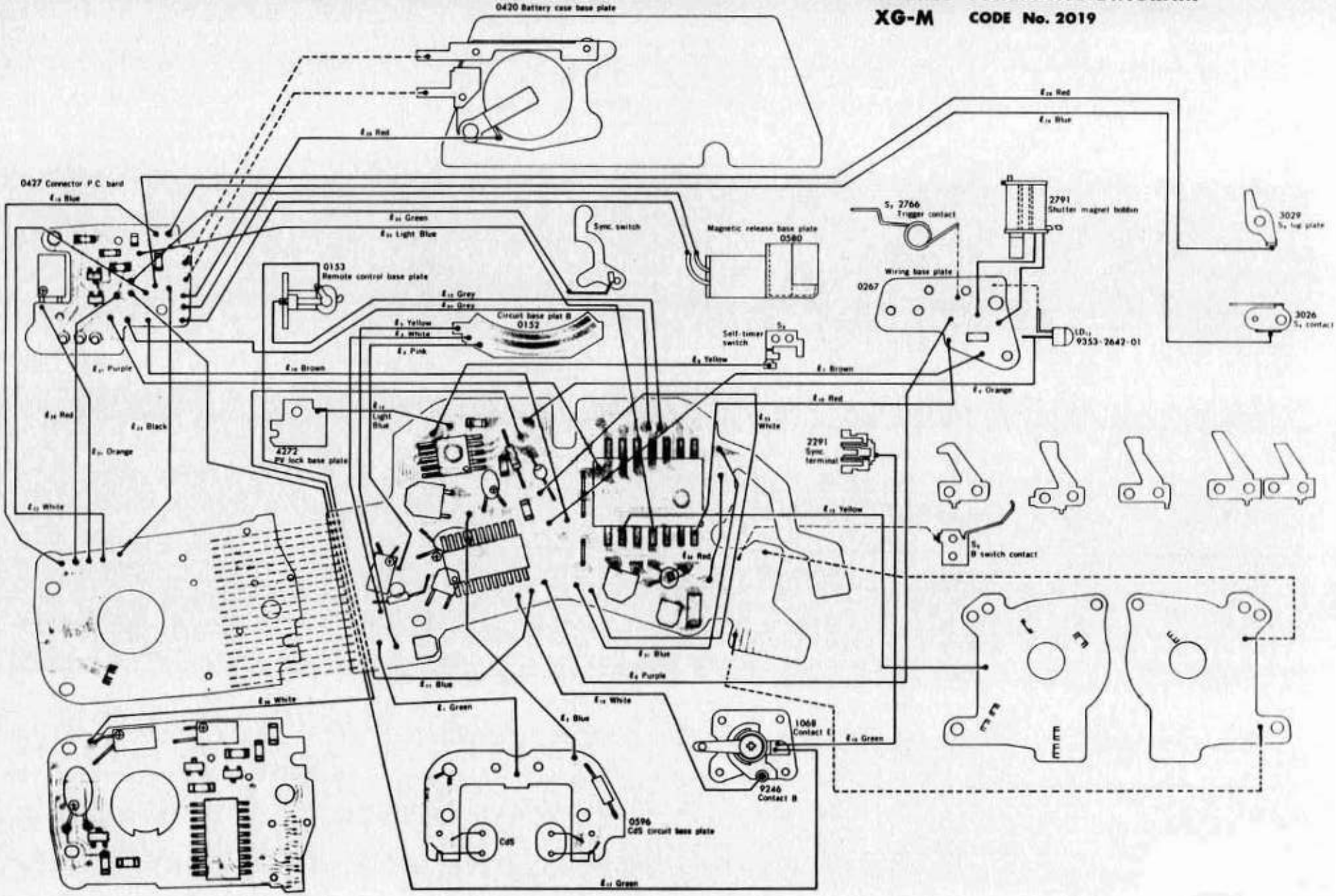


■Fig.3



WIRING SCHEMATIC DIAGRAM

XG-M CODE No. 2019



Trouble Shooting Chart

1. Hints on use of Trouble Shooting Chart

1. This chart includes the symptoms and causes of troubles on the camera side.
2. Even when a symptom appears on the camera side, the trouble is not always on the camera side but in connection with the replacement lens, winder or exclusive strobo. Therefore, carefully check operations related to the auxiliary parts before using this chart.

2. Contents of Chart

Unlike a conventional flow chart, defects and their symptoms are theoretically analyzed in this chart.

3. Precautions for Work

1. A digital tester (2507) is to be used as the measuring instrument. It is also allowable to use other measuring instruments when the input impedance exceeds 10 MΩ.
2. Use the measuring instrument to check voltages, and a tester of less than 3V to check current conduction.
3. It can be safely said that troubles of electric parts such as IC's diodes, transistors, resistors, capacitors, etc. seldom occur. It is therefore practical to put emphasis on checking for defective soldering of lead wires and electric parts, defective switches, etc.
4. When checking for defective soldering, do not excessively press the parts or pull the lead wires.
5. When measuring voltage, attach a pin to the end of alligator clip because the portion measured is very narrow. Do not directly connect the alligator clip with the portion measured; otherwise damge to the electric parts or to the pattern may occur.
6. When measuring the switch operation pattern, take care not to scratch the pattern outside the switch operation range. In case of a switch contact, take care not to disturb the switch contact.
7. When removing electric parts, pull out the power supply cord.
8. The desirable soldering iron temperature is about 260~300°C. In any case, finish soldering in a few seconds. Be sure to remove chips before soldering.

4. How to use the Trouble Shooting Chart

1. Problems (symptoms) are listed horizontally, according to function. First check the symptoms of the camera and then find the defective parts reading this chart.

2. Symblos used in the chart

2-1 Description of problem

* For open parts, defective soldering, disconnected leads, defective switch contacts, etc., are mentioned, including part of shortcircuit problems. ⌀1㎜ show that the lead is caught by top cover or mechanism, causing it to become grounded.
* For the termal pressure setting between flexible and other boards, the symbol is as shown in the flexible pattern diagram.

2-2 Description for symptom

* For SS and indication functions,

o....normal; x....defective;
blank....release impossible;
A....auto mode; M....manual mode

* For self function, considerations are given mainly to blinking of LD13. For self release, refer to the release colum.
* The blanks in release, self, bulb, strobe and BC shown that the operations are normal.

Symptoms / Open part	Shutter speed		LED indication			Rlease	Self	Bulb	B.C	Others ( )----with strobe
	Auto	Manual	Auto	Manual	M letter					
IC1 ①		No exposure	▲ lights up	▲ lights up	○	A:No M:Yes				
②		○	▲ lights up	▲ lights up	○	A:No M:Yes				
③		○	▲ lights up	▲ lights up	○	A:No M:Yes				
④	Kept open	No exposure	X	/	○					
⑤	No exposure	No exposure	○	○	○					
⑥	No exposure	No exposure	○	X	○					Low on the whole -----LED indication
⑦		○	▲ lights up	▲ lights up	○	A:No M:Yes				
⑧	○	○	○	○	○					(1/60 LED not brinking) (Doesn't come 1/60)
⑨			○	○	○	X				
⑩	No exposure	No exposure	○	○	○					
⑪	No exposure	NO exposure	○	○	○					
⑫	Kept open	Kept open	○	○	○					
⑬	○	○	○	○	○					(1/60 LED not brinking)
⑭		No exposure	▲ lights up	▲ lights up	○	A:No M:Yes		No exposure		(1/60 LED not brinking) (Doesn't come 1/60)
⑮	No exposure	No exposure	○	○	○			No exposure		
⑯	No exposure	No exposure	○	○	○			No exposure		
⑰	Kept open	○	X	X	○					
⑱	*1	○	*2	*2	○					When change SV & AV, doesn't change LED & SS
⑲		○	▲ lights up	▲ lights up	○	A:No M:Yes				
⑳	Kept open	○	X	X	○					
IC2 ①	○	○	X (1/1000)	X (1/1000)	○					
②	○	○	X (▲)	X (▲)	○					Doesn't work ▲ lock
③	○	○	○	○	○					
④	*3	*3	○	○	○					LED doesn't turn off
⑤	*3	*3	○	○	○					
⑥	○	○	X	X	○					
⑦		○	▲ lights up	▲ lights up	○	A:No M:Yes				
⑧	○	○	○	○	○					LED doesn't follow by EV
⑨	○	○	X (▼)	X (▼)	○					
⑩	○	○	X (1/2)	X (1/2	○					

*1 : Become fast speed
*2 : High on the whole
*3 : Kept open with Remocon

Symptoms / Open part	Shutter speed: Auto	Shutter speed: Manual	LED indication: Auto	LED indication: Manual	LED indication: M letter	Release	Self	Bulb	B.C	Others ( )----with strobe
IC2 ①	○	○	X (1/4)	X (1/4)	○					
②	○	○	X (1/8)	X (1/8)	○					
③	○	○	X	X	○					
④	○	○	X (1/15)	X (1/15)	○					
⑤	○	○	X (1/30)	X (1/30)	○					
⑥	○	○	X (1/60)	X (1/60)	○					
⑦	○	○	X (1/125)	X (1/125)	○					
⑧	○	○	X	X	○					
⑨	○	○	X (1/250)	X (1/250)	○					
⑩	○	○	X (1/500)	X (1/500)	○					
IC3 ①			○	○	○	X	X	X		
②	Bulb	Bulb	○	○	○					
③	○	○	○	○	○					Doesn't release with low voltage
④	○	○	○	○	○		X (Only no brinkinh)			
⑤	○	○	○	○	○		X (Only no brinking)		X	
⑥	○	○	○	○	○		X			
⑦	*3	*3	○	○	○		X			
⑧	abnormal	abnormal	○	○	○	X		X		
⑨	○	○	○	○	○			X		
⑩			○	○	○	X	X	X	X	
HIC ①	Kept open	Kept open	X	X	X					
②			X	X	X					
③	Kept open	Kept open	X	X	X					
④			○	○	○	X	X	X		
⑤			○	○	○	X	X	X		
⑥			○	○	○	X	X	X		
⑦			○	○	○	X		X		
⑧			○	○	○	X		X		
⑨			○	○	○	X		X		
⑩			○	○	○	X		X		

*3 : Kept open with Remocon.

Symptoms / Open part	Shutter speed		LED indication			Release	self	Bulb	B.C	Others ( )----with strobe
	Auto	Manual	Auto	Manual	M letter					
HIC ⑪	○	○	◐	◐	○					LED kepps lighting on MD-1 or winder side
⑫	No exposure	No exposure	◐	○	○			No exposure		
⑬	Kept open	Kept open	X	X	X					
⑭	○	No exposure	◐	◐	○					
Flexible board ①			◐	◐	◐	X	X	X		
②	*3	*3	○	◐	◐					Same as IC-2 ⑤
③			◐	◐	○	X	X	X		Same as HIC ⑦
④	*3	*3	◐	◐	◐		X (Doesn't release)			M letter doesn't turn off
⑤	*3	*3	◐	◐	◐		X (Doesn't release)			
⑥			X	X	X	X	X	X	X	
⑦	○	○	◐	○	◐					Doesn't work ▲ lock
⑧	○	◐	◐	○	◐					(1/60 LED not brinking)
⑨			X	X	X	X	X	X	X	
⑩	High speed	○								Same as IC 1 ⑱
⑪		◐	▲ lights up	▲ lights up	○	A : No M : Yes				Same as IC 1 ⑲
⑫	Kept open	Kept open	X	X	◐					
⑬			○	◐	◐	X	X	X		
⑭	○	○	○	○	X					
⑮	○	○	○	○	○					Doesn't work ▲ lock
⑯	○	○	X	X	X					
⑰	○	◐	X	X	○					Same as IC2 ⑥
⑱		◐	▲ lights up	▲ lights up	○	A : No M : Yes				Same as IC2 ⑦
Ⓐ	○	○	○	○	○				X	
Ⓑ			X	X	X	X	X	X	X	
Ⓒ	○	○	○	○	○					LED kepps lighting on MD-1 or winder side
Ⓓ	○	No exposure	○	○	○					LED indication deflected
Ⓔ	○	No exposure	○	○	○					LED indication deflected
Ⓕ	○	No exposure	○	○	○					LED indication deflected
Ⓖ			X	X	X	X	X	X		
Ⓗ	○	○	○	○	X					

*3 : Kept open with Remocon

Symptoms / Open part	Shutter speed: Auto	Shutter speed: Manual	LED indication: Auto	LED indication: Manual	LED indication: M letter	Release	self	Bulb	B.C	Others ( )----with strobe
Flexible board (I)	○	○ (or no exposure)	○	▲ lights up						
(J)	No exposure	○	○	○	○					Indication doesn't match between A and M mode
(K)	○	○	○	○	○					Doesn't work ▲ lock
(L)		○ (or no exposure)	▲ lights up	▲ lights up	○	A:No M:Yes				
(M)	No exposure	No exposure	○	○	○					Same as IC1 (5)
(N)	○	○	○	○	○					Doesn't work ▲ lock
(O)		○	▲ lights up	○	○	A:No M:Yes				
SW1	○	○	X	X	X					
SW1 ///	○	○	○	○	○					LED keeps lighting
SW2			○	○	○	X	X	X		
SW2 ///	○	○	○	○	○					*4
SW3	No exposure	No exposure	○	○	○					
SW3 ///	Kept open	Kept open								
SW4			○	○	○	X	X	X		
SW4 ///			○	○	○	X	X	X		
SW5	Bulb	Bulb	○	○	○					
SW5 ///	○	○	○	○	○			X		
SW6	○	○	○	○	○		X			
SW6 ///	○	○	○	○	○					Self is activated at all time
SW7			X	X	X	X	X			
SW7 ///	○	○	○	○	○					
SW8—1A	No exposure	○	○	○	○					Same as (J)
SW8—1M	○	No exposure	○	○	○					Same as (F)
SW8—2A	○	○	○	○	○					Same as (K)
SW8—3A		○	▲ lights up	○	○	A:No M:Yes				Same as (O)
SW8—3M	○	No exposure	○	▲ lights up	○					Same as (I)
SW8—4A	○	○	○	○	○					Doesn't work ▲ lock

*4: Shutter is operated with winding lever sifted back.

Symptoms / Open part	Shutter speed: Auto	Shutter speed: Manual	LED indication: Auto	LED indication: Manual	LED indication: M letter	Release	Self	Bulb	B.C	Others ( )----with strobe
SW8—3, 4A			▲lights up			A:No M:Yes	▲lock	▲lock		
SW8—3, 4M		No exposure		▲lights up	○					
SW12	○	○	○	○	○					Shutter is operated with PV. button depressed
SW12 †††			○	○	○	X	X	X		
SW21	○	○	○	○	○				X	
SW21 †††	○	○	○	○	○					B.C keeps lighting
R , RC	△	○	△	△	○					EE & indication linearity change great(only A)
R2	Kept open	○	X	X	○					
R4	△	○	△	△	○					
R5, D1	○	○	○	○	○					Same as IC3③
R6	○	○	○	○	○		X			
R7	○	○	○	○	○		(only no brinking)			
R8	○	○	○	○	○					Deflect indication linearity
R9	○	○	X	X	○					
R10	○	○	○	○	○				△	Deflect B.C voltage
R11	○	○	○	○	○					Same as①
R12	○	○	○	○	○					Deflect shutter speed by temperature
R13, 14, 15	○	○	○	○	X					
R16	○	○	○	○	○					Doesn't operate MD-1 & winder
R17	○	○	○	○	○					Same as⑩
R18	○	○	○	○	○					Possible wrong operation with MD-1 or winder
R19			○	○	○	X		X		
C1	Kept open	Kept open	○	○	○					
C2	No exposure	No exposure	○	○	○					
C3	△	△	○	○	○					Excessive variation
C4	○	○	○	○	○		X			
C5	*3	*3	○	○	○		X			

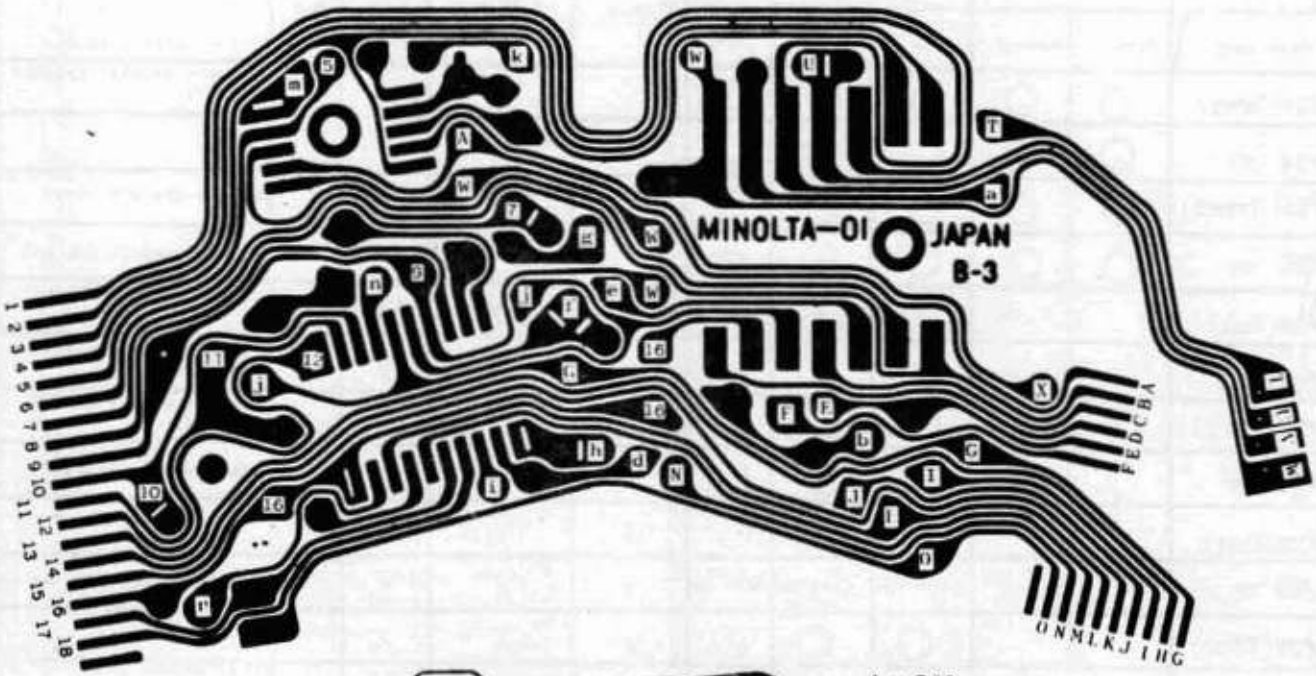
Symptoms / Open part	Shutter speed: Auto	Shutter speed: Manual	LED indication: Auto	LED indication: Manual	LED indication: M letter	Release	Self	Bulb	B.C	Others ( )----with strobe
C6			○	○	○	X		X		
C7	High speed	High speed	○	○	○					Metering circuit oscillates
C8	○	○	○	○	○					SS & LED unstable when battery capacity low
C9	○	○	○	○	○					Possible wrong operation with MD-1 or window
D2	○	○	○	○	○					Brinking solr LED by S2 on when ▲ lights up
TC	○	○	○	○	○					Same as R12
VR1	○	No exposure	○	○	○					
VR2	No exposure	○	○	○	○					Same as ⓙ
VR3		No exposure	▲lights up	▲ lights up	○	A:No M:Yes				Same as Ⓛ
VR4	No exposure	No exposure	○	○	○					
VR5	kept open	kept open	X	X	○					
TR1	○	○	○	○	○					Doesn't work ▲lock
TR2, TR3	○	○	○	○	X					
TR4, TR5	○	○	○	○	○					No operation MD-1 & winder
ℓ1 (Green)	kept open	○	X	X	○					
ℓ1 ₩	Kept open	kept open	X	X	X					Short circuit when S1. on
ℓ2 (Blue)	Kept open	○	X	X	○					
ℓ2 ₩	Kept open	○	X	X	○					
ℓ3 (White)	○	○	○	○	○					Doesn't change SS & LED by AV
ℓ3 ₩		○	▲ lights up	▲ lights up	○	A:No M:Yes				
ℓ4 (Pink)	Kept open	○	▼ lights up	▼ lights up	○					
ℓ4 ₩	Kept open	○	▼ lights up	▼ lights up	○					
ℓ5 (Yellow)	High speed	○	▲ lights up	▲ lights up	○	A:No M:Yes				
ℓ5 ₩	Kept open	○	X	X	○					
ℓ6 (Yellow)	○	○	○	○	○		X			
ℓ6 ₩	○	○	○	○	○					All mode self function
ℓ7 (Brown)	No exposure	No exposure	○	○	○			X		
ℓ7 ₩	Kept open	Kept open	○	○	○			X		
ℓ8 (Purple)	No exposure	No exposure	○	○	○					
ℓ8 ₩	Kept open	Kept open	○	○	○					

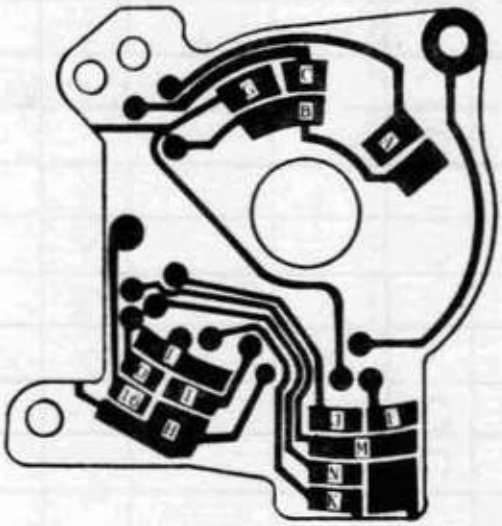
Symptoms / Open part	Shutter speed		LED indication			Release	self	Bulb	B.C	Others
	Auto	Manual	Auto	Manual	M letter					( )----with strobe
P9(Orange)	○	○	○	○	○		(Only no lighting)			
P9 〃	○	○	○	○	○		(LED kepps lighting)			
P10(Red)	No exposure	No exposure	○	○	○		(Only no lighting)	X	X	
P10 〃			X	X	X	X	X	X	X	Power source short circuit
P11(Blue)	○	○	○	○	○	X(Remocon)				
P11 〃	○	○	○	○	○			X		
P12(Grey)	○	○	○	○	○	X(Remocon)				
P12 〃	○	○	○	○	○					*4
P13(Yellow)	○	○	○	○	○					Doesn't work ▲ lock
P13 〃	Kept open	Kept open	X	X	X					Power source short circuit
P14(R.blue)	○	○	○	○	○					Shutter is operated with PV button depressed
P14 〃			○	○	○	X		X		
P15(White)	○	○	○	○	○					Same as IC1⑧
P15 〃	○	○	○	○	○					Same as IC1⑧
P16(Green)	○	○	○	○	○					(Strobe doesn't fire)
P16 〃	○	○	○	○	○					(Strobe doesn't fire)
P17(Green)	○	○	○	○	○					(Strobe doesn't fire)
P17 〃	○	○	○	○	○					(Strobe doesn't fire)
P18(Brown)			○	○	○	X		X		
P18 〃			○	○	○	X		X		
P19(Blue)			○	○	○	X	X	X		
P19 〃			X	X	X	X	X	X		Power source short circuit
P20(Red)			X	X	X	X	X	X	X	
P20 〃			X	X	X	X	X	X	X	Power source short circuit
P21(Orange)			○	○	○	X		X		
P21 〃			○	○	○	X		X		Too early exhaution battery
P22(White)			○	○	○	X	X	X		
P22 〃			○	○	○	X	X	X		Short circuit with S4 on
P23(Black)			X	X	X	X	X	X	X	

*4 : Shutter is operated with winding lever sifted back.

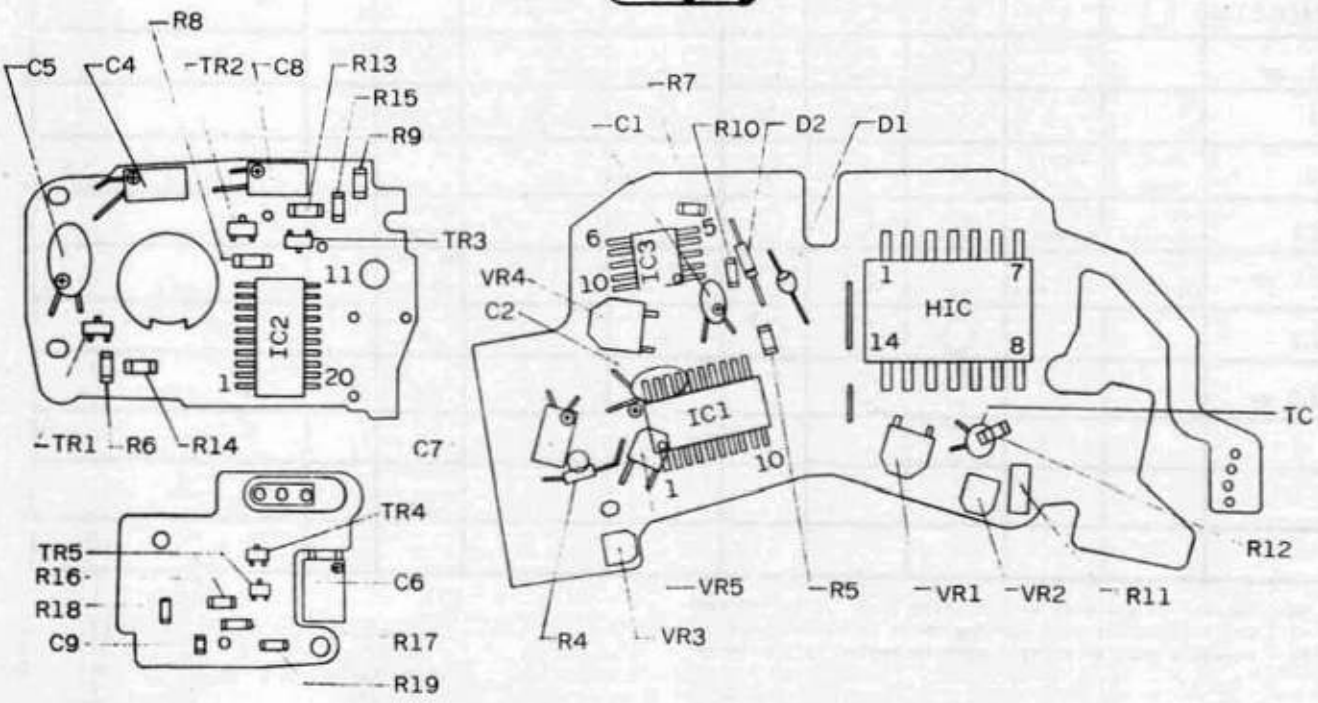
Symptoms / Open part	Shutter speed		LED indication			Rlease	Self	Bulb	B.C	Other ( )----with strobe
	Auto	Manual	Auto	Manual	M letter					
ℓ24(Grey)	○	○	○	○	○					Doesn't shutter release by MD-1
ℓ24 ㎜	○	○	○	○	○	*4	*5			
ℓ25(Green)	○	○	○	○	○					(Strobe doesn't fire)
ℓ25 ㎜	○	○	○	○	○					(Strobe doesn't charge)
ℓ26(Red)			X	X	X	X	X	X	X	
ℓ26 ㎜			X	X	X	X	X	X	X	Power source short circuit
ℓ27(Purple)	○	○	○	○	○					Doesn't work touch SW of MD-1
ℓ27 ㎜	○	○	○	○	○					LED keeps lighting
ℓ28(Red)			○	○	○	X	X	X		
ℓ28 ㎜			X(S4 on)	X(S4 on)	X(S4 on)	X	X	X		Short circuit with S4 on
ℓ29(Blue)			○	○	○	X	X	X		
ℓ29 ㎜			X	X	X	X	X	X		Power source short circuit
ℓ30(White)	○	○	○	○	○		X			
ℓ30 ㎜	○	○	○	○	○		X			
ℓ31(Blue)			○	○	○	X	X	X		
ℓ31 ㎜	○	○	○	○	○			X		
ℓ32(Red)			X	X	X	X	X	X		
ℓ32 ㎜			X	X	X	X	X	X	X	Power source short circuit
ℓ33(White)	○	○	○	○	○					Doesn't work lock
ℓ33 ㎜			○	○	○	X		X		
ℓ34(R.blue)	○	○	○	○	○					*6
ℓ34 ㎜			○	○	○	X		X		
J1			X	X	X	X	X	X	X	
J2	Kept open	Kept open	X	X	X					
SL1	No exposure	No exposure	○	○	○			No exposure		
SL1 ㎜	No exposure	No exposure	○	○	○			No exposure		
SL2			○	○	○	X		X		
SL2 ㎜			○	○	○	X		X		

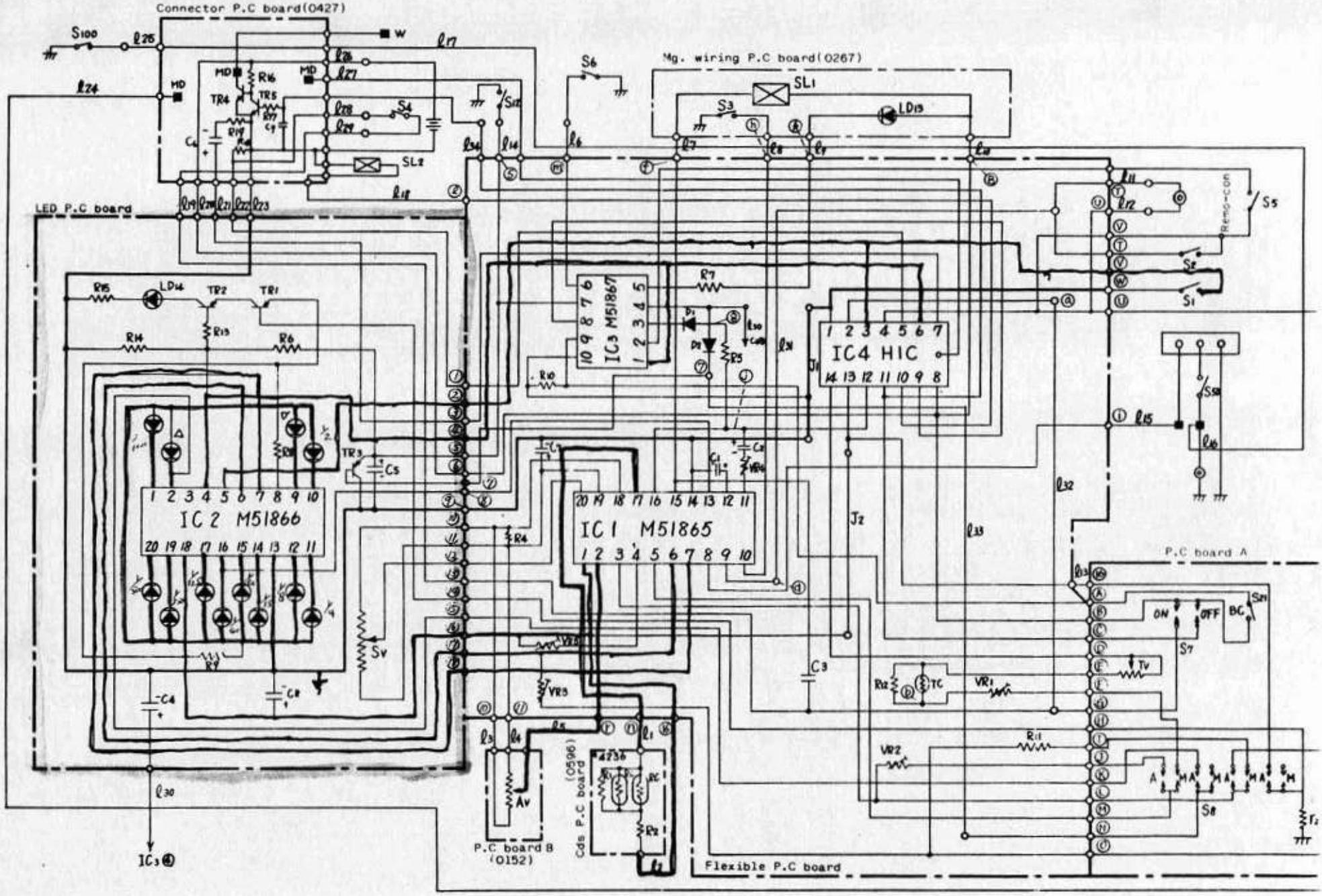
*4 : Shutter is operated with winding lever is sifted back
*5 : Self is started with winding lever is sifted back
*6 : Possible shutter release with PV button is depressed





A : S21
B : Power source ⊕ line
C : S7 OFF
F : S8-1(M)
G : S7 ON
H : S8-4(COM)
I : S8-3(M)
J : S8-1(A)
K : S8-2(A)
L : S8-3(COM)
M : S8-1(COM)
N : S8-2(COM)
O : S8-3(A)
16 : S8-4(A)




Connector P.C board(0427)
Mg. wiring P.C board(0267)
LED P.C board
IC 2 M51866
IC1 M51865
IC3 M51867
IC4 HIC
P.C board A
P.C board B (0152)
Cds P.C board (0596)
Flexible P.C board
Remote control
ON
OFF
BC
IC3 ④